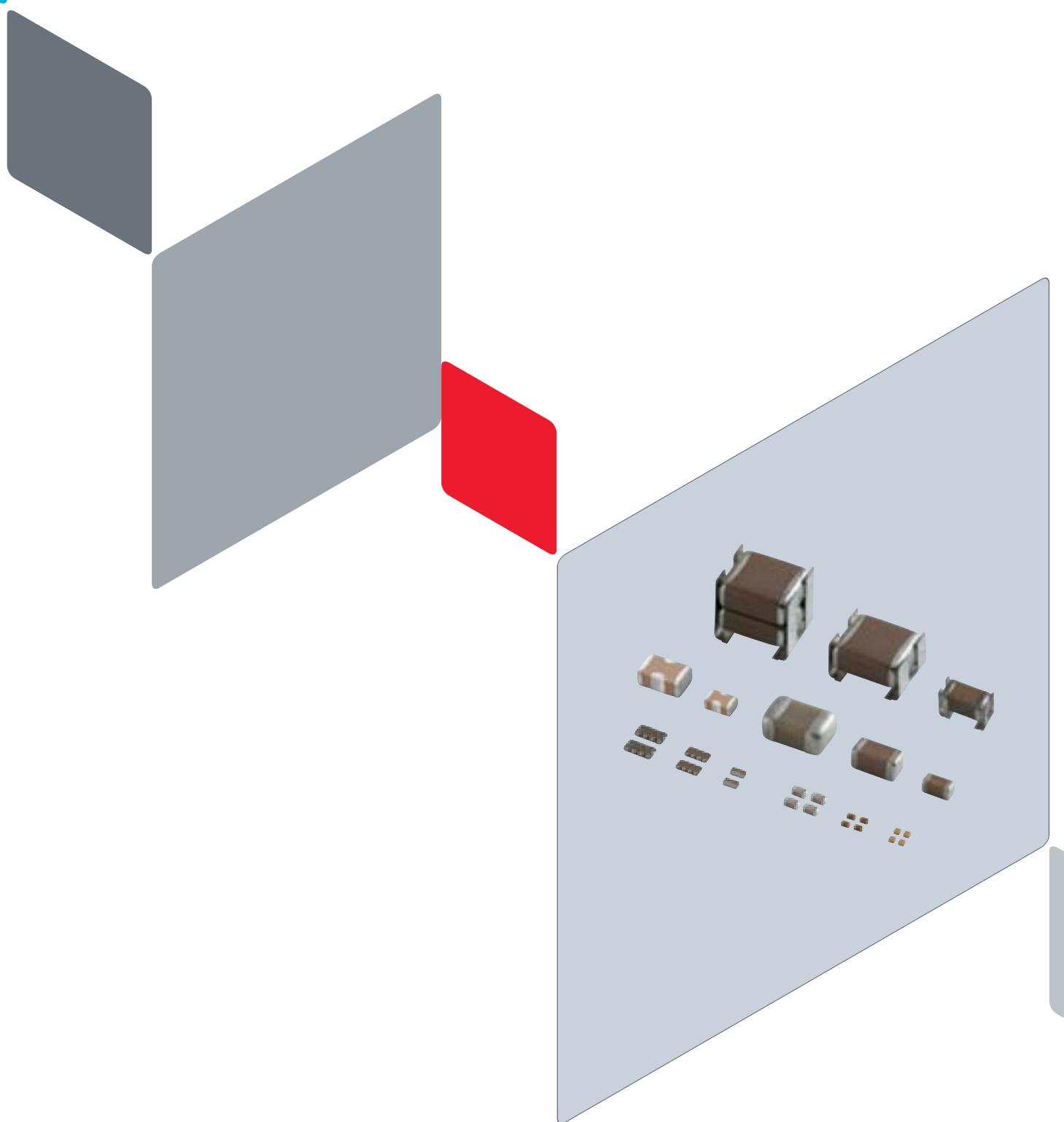




# Chip Monolithic Ceramic Capacitors



2016

### **EU RoHS Compliant**

- All the products in this catalog comply with EU RoHS.
- EU RoHS is "the European Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment."
- For more details, please refer to our website 'Murata's Approach for EU RoHS' (<http://www.murata.com/en-eu/support/compliance/rohs>).

### **Qualified Standards**

- The products listed here have been produced by ISO 9001 certified factory.

<Plant>

- Fukui Murata Mfg. Co., Ltd.
- Izumo Murata Mfg. Co., Ltd.
- Murata Electronics Singapore (Pte.) Ltd.
- Wuxi Murata Electronics Co., Ltd.
- PHILIPPINE MANUFACTURING CO. OF MURATA, INC.

# Contents

Product specifications are as of August 2016.

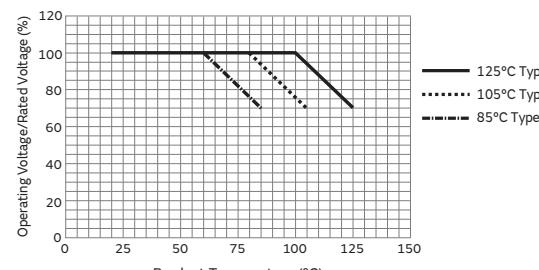
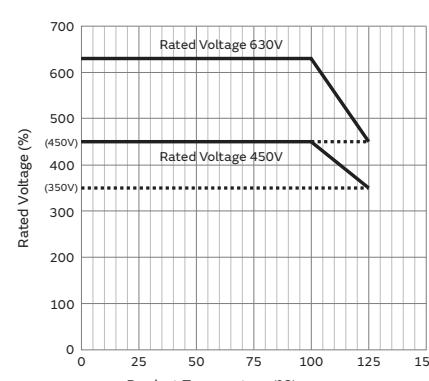
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Please check the MURATA website (<http://www.murata.com/>)  
if you cannot find a part number in this catalog.

# Explanation of Symbols in This Catalog



Links are provided to the latest information from the PDF version of the catalog, which is available on the web.

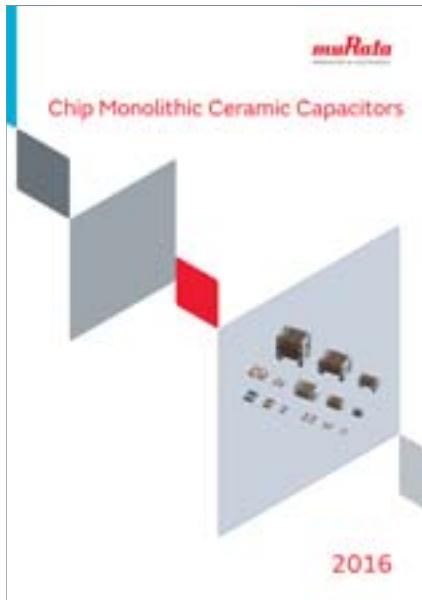
<b>General</b>	For applications that do not require a particular reliability, such as general equipment.	<b>Effective Cap</b>	No DC bias characteristics Polymer capacitor is no capacitance change with DC bias due to aluminum oxidized film for dielectric.
<b>Infotainment</b>	Infotainment for Automotive The product for entertainment equipment like car navigations, car audios, and body control equipment like wipers, power windows.	<b>EMI FIL®</b>	Low-inductance product suitable for noise suppression. This product has extremely low ESL and is suitable for suppression of noise, including high frequencies. This product can also be used as a low-ESL, high-performance bypass capacitor.
<b>Power-train</b>	Powertrain/Safety for Automotive Products use for applications (running, turning, stopping, and safety devices) that particularly concern human life, such as in devices for automotive.	<b>Bonding</b>	Product for bonding Since gold is used for the external electrodes, the capacitor can be mounted by die bonding/wire bonding.
<b>Medical Device</b>	Medical-grade products for Implanted Medical Devices These products are intended for use in implanted medical devices such as cardiac pacemakers, cochlear implants, insulin pumps, and gastric electrostimulators. They are suitable for use in non-critical circuits. *1  *1 Non-critical circuits This term refers to circuits in implanted medical devices that are not directly linked to life support, i.e. circuits that will not directly endanger the life of the patient should the functionality of the device be reduced or halted by failure of the circuit.	<b>D1</b> Derating 1	Derating 1 This product is suitable when a voltage continuously applied to a capacitor in an operating circuit, is used below (derated) the rated voltage of the capacitor. This model guarantees the test conditions in the endurance test, at a rated voltage x 100% at the maximum operating temperature. A reliability assurance level equivalent to a common product can be secured, by using this product within the voltage and temperature derated conditions recommended in the figure below.  Recommended Conditions of the Derating Operating Voltage and Temperature
<b>AEC-Q200</b>	AEC-Q200 compliant product		
<b>Safety standard</b>	Safety Standard Certified Product Products that acquired safety standard certification IEC60384-14 and products based on the Electrical Appliance and Material Safety Law of Japan.		Derating 2 When the product temperature exceeds 105°C, please use this product within the voltage and temperature derated conditions in the figure below.
<b>High Q</b>	Low dissipation for high frequency By devising ceramic materials and electrode materials, low dissipation is achieved in frequency bands of VHF, UHF, and microwave or beyond.	<b>D2</b> Derating 2	
<b>Low ESL</b>	Low inductance This capacitor is designed so that the parasitic inductance component (ESL) that the capacitor has on the high frequency side becomes lower.		
<b>Fail safe</b>	Fail safe product This capacitor is designed to prevent failures as much as possible by short mode.		
<b>Deflecting crack</b>	Product resistant to deflection cracking This capacitor is designed to prevent failures as much as possible by short mode caused by cracking when there is board deflection.		
<b>Soldering crack</b>	Product with solder cracking suppression This capacitor is configured with metal terminals and leads connected to the chip. The metal terminals and leads relieve the stress from expansion and contraction of the solder, to suppress solder cracking.		
<b>Anti-noise</b>	Product suitable for acoustic noise reduction and low distortion This product suppresses acoustic noise, which occurs when a ceramic capacitor is used, by devising the materials and configuration.	<b>D3</b> Derating 3	Derating 3 Please apply the derating curve according to the operating temperature. Please refer to detailed specifications sheet for details.

# Selection Guide for Capacitors

	AEC-Q200	Safety standard	High Q	Low ESL	Anti-noise	Fail safe	Deflecting crack	Soldering crack	Effective Cap	EMI FIL®	Other
<b>General</b>	<b>GRM</b> P24										
	<b>GRM</b> WEB										For LED backlight only
	<b>GA2</b> WEB										
	<b>GA3</b> WEB										
	<b>GJM</b> P91										
	<b>GMA</b> P113										Wire bondable
	<b>GMD</b> P116										Wire bondable
	<b>GQM</b> P119										
	<b>GR3</b> P130										
	<b>GR4</b> WEB										For communication / information devices
	<b>GR7</b> WEB										Limited to camera flashes
	<b>GRJ</b> P132										
	<b>KR3</b> P147										
	<b>KRM</b> P144										
	<b>LLA</b> P136										
	<b>LLL</b> P138										
	<b>LLM</b> P140										
	<b>LLR</b> P142										
	<b>NFM</b> P150										
	<b>DE1</b> WEB										
	<b>DE2</b> WEB										
	<b>DEJ</b> WEB										
	<b>DHR</b> WEB										
	<b>RDE</b> WEB										
	<b>DHK</b> WEB										
	<b>DHS</b> WEB										
	<b>ECAS</b> WEB										
<b>Medical Device</b>	<b>GCH</b> P152										For Implanted Medical Devices
<b>Info-tainment</b>	<b>GRT</b> WEB										
<b>Power-train</b>	<b>GCM</b> WEB										
	<b>GC3</b> WEB										
	<b>GCD</b> WEB										
	<b>GCE</b> WEB										
	<b>GCG</b> WEB										
	<b>GCJ</b> WEB										
	<b>KC3</b> WEB										
	<b>KCA</b> WEB										
	<b>KCM</b> WEB										
	<b>NFM</b> WEB										
	<b>DE6</b> WEB										
	<b>RCE</b> WEB										
	<b>RH</b> WEB										

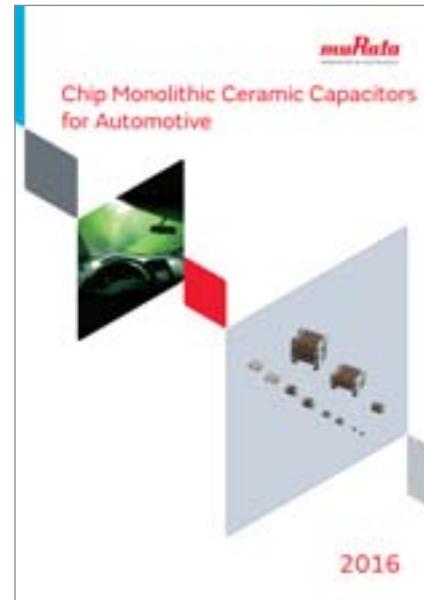
# Catalog information

Catalog relates to a multilayer ceramic capacitor is below.



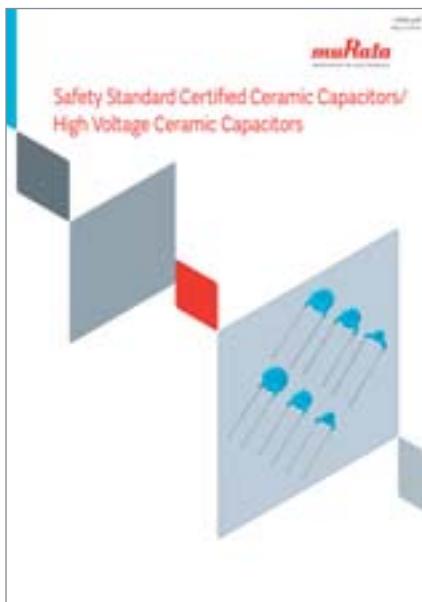
## Chip Monolithic Ceramic Capacitors

Cat No. C02E-20



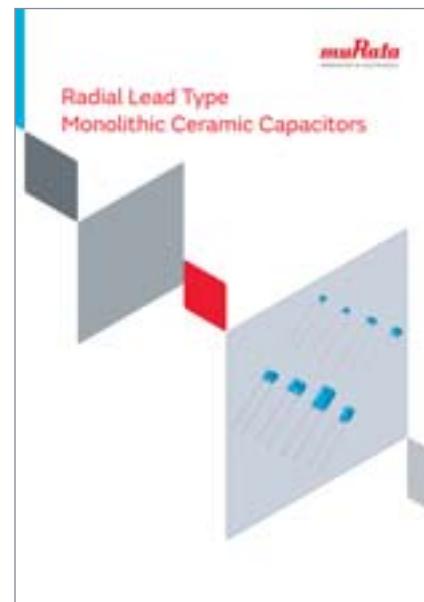
## Chip Monolithic Ceramic Capacitors for Automotive

Cat No. C03E-9



## Safety Certified Ceramic Capacitors/ High Voltage Ceramic Capacitors

Cat No. C85E-5



## Radial Lead Type Monolithic Ceramic Capacitors

Cat No. C49E-23

## ● Part Numbering

Chip Monolithic Ceramic Capacitors for General



(Part Number)

GR	M	18	8	B1	1H	102	K	A01	D
1	2	3	4	5	6	7	8	9	10

①Product ID ②Series

Product ID	Code	Series
GC	H	For implantable medical devices (Non-critical circuits)
GJ	M	High Q type for high frequency
GM	A	Wire bondable vertical electrode type
	D	Wire bondable/AuSn solderable type
GQ	M	High Q type for high frequency and high power
GR	3	High effective capacitance & High allowable ripple current
	J	Soft termination type
	M	General purpose products
KR	3	Metal terminal type/High effective capacitance & High allowable ripple current
	M	Metal terminal type
LL	A	8 terminal low ESL type
	L	LW reversed low ESL type
	M	10 terminal low ESL type
	R	ESR controlled low ESL type

③Chip Dimensions (LxW)

Code	Dimensions (LxW)	EIA
02	0.4x0.2mm	01005
0D	0.38x0.38mm	015015
03	0.6x0.3mm	0201
05	0.5x0.5mm	0202
08	0.8x0.8mm	0303
1U	0.6x1.0mm	02404
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
22	2.8x2.8mm	1111
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
42	4.5x2.0mm	1808
43	4.5x3.2mm	1812
55	5.7x5.0mm	2220

Continued on the following page.↗

(Part Number)

GR	M	18	8	B1	1H	102	K	A01	D
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

Continued from the preceding page. ↴

④ Height Dimension (T) (Except KR□)

Code	Dimension (T)
1	0.125mm
2	0.2mm
3	0.3mm
4	0.4mm
5	0.5mm
6	0.6mm
7	0.7mm
8	0.8mm
9	0.85mm
A	1.0mm
B	1.25mm
C	1.6mm
D	2.0mm
E	2.5mm
M	1.15mm
Q	1.5mm
S	2.8mm
X	Depends on individual standards.

④ Height Dimension (T) (KR□ Only)

Code	Dimension (T)
E	1.8mm
F	1.9mm
K	2.7mm
L	2.8mm
Q	3.7mm
T	4.8mm
W	6.4mm

⑤ Temperature Characteristics

Temperature Characteristic Codes			Temperature Characteristics			Operating Temperature Range	Capacitance Change Each Temperature (%)					
Code	Public STD Code	Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient	-55°C		*4		-10°C			
					Max.	Min.	Max.	Min.	Max.	Min.		
1X	SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	-55 to 125°C	-	-	-	-	-	
2C	CH	JIS	20°C	20 to 125°C	0±60ppm/°C	-55 to 125°C	0.82	-0.45	0.49	-0.27	0.33	
3C	CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	-55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	
3U	UJ	JIS	20°C	20 to 85°C	-750±120ppm/°C	-25 to 85°C	-	-	4.94	2.84	3.29	
4C	CK	JIS	20°C	20 to 125°C	0±250ppm/°C	-55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	
5C	COG	EIA	25°C	25 to 125°C	0±30ppm/°C	-55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	
5G	X8G	*2	25°C	25 to 150°C	0±30ppm/°C	-55 to 150°C	0.58	-0.24	0.4	-0.17	0.25	
7U	U2J	EIA	25°C	25 to 125°C *3	-750±120ppm/°C	-55 to 125°C	8.78	5.04	6.04	3.47	3.84	
B1	B *1	JIS	20°C	-25 to 85°C	±10%	-25 to 85°C	-	-	-	-	-	
B3	B	JIS	20°C	-25 to 85°C	±10%	-25 to 85°C	-	-	-	-	-	
C7	X7S	EIA	25°C	-55 to 125°C	±22%	-55 to 125°C	-	-	-	-	-	
C8	X6S	EIA	25°C	-55 to 105°C	±22%	-55 to 105°C	-	-	-	-	-	
D7	X7T	EIA	25°C	-55 to 125°C	+22%, -33%	-55 to 125°C	-	-	-	-	-	
D8	X6T	EIA	25°C	-55 to 105°C	+22%, -33%	-55 to 105°C	-	-	-	-	-	
E7	X7U	EIA	25°C	-55 to 125°C	+22%, -56%	-55 to 125°C	-	-	-	-	-	
R1	R *1	JIS	20°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	
R6	X5R	EIA	25°C	-55 to 85°C	±15%	-55 to 85°C	-	-	-	-	-	
R7	X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	

\*1 Capacitance change is specified with 50% rated voltage applied.

\*2 Murata Temperature Characteristic Code.

\*3 Rated Voltage 100Vdc max: 25 to 85°C

\*4 -25°C (Reference Temperature 20°C) / -30°C (Reference Temperature 25°C)

Continued on the following page. ↗

(Part Number)

<b>GR</b>	<b>M</b>	<b>18</b>	<b>8</b>	<b>B1</b>	<b>1H</b>	<b>102</b>	<b>K</b>	<b>A01</b>	<b>D</b>
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

Continued from the preceding page. ↴

**⑥ Rated Voltage**

Code	Rated Voltage
OE	DC2.5V
OG	DC4V
OJ	DC6.3V
1A	DC10V
1C	DC16V
1E	DC25V
1H	DC50V
1J	DC63V
1K	DC80V
2A	DC100V
2D	DC200V
2E	DC250V
2W	DC450V
2H	DC500V
2J	DC630V
3A	DC1kV
3D	DC2kV
3F	DC3.15kV
YA	DC35V

**⑦ Capacitance**

Expressed by three-digit alphanumerics. The unit is picofarad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If any alphabet, other than "R", is included, this indicates the specific part number is a non-standard part.

Ex.)	Code	Capacitance
	R50	0.50pF
	1R0	1.0pF
	100	10pF
	103	1000pF

**⑧ Capacitance Tolerance**

Code	Capacitance Tolerance
B	±0.1pF
C	±0.25pF
D	±0.5pF (Less than 10pF)
	±0.5% (10pF and over)
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%
W	±0.05pF

**⑨ Individual Specification Code (Except LLR)**

Expressed by three figures.

**⑩ ESR (LLR Only)**

Code	ESR
E01	100mΩ
E03	220mΩ
E05	470mΩ
E07	1000mΩ

**⑪ Packaging**

Code	Packaging
L	ø180mm Embossed Taping
D/E/W	ø180mm Paper Taping
K	ø330mm Embossed Taping
J/F	ø330mm Paper Taping
B	Bulk
C	Bulk Case
T	Bulk Tray

Please contact us if you find any part number not provided in this table.

### 3 Terminal Low ESL Monolithic Ceramic Capacitors

WEB 

(Part Number)

NF	M	3D	CC	102	R	1H	3	L
1	2	3	4	5	6	7	8	9

①Product ID ②Series

Product ID	Series
NFM	3 Terminal Low ESL Type

③Dimensions (LxW)

Code	Dimensions (LxW)	EIA
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
3D	3.2x1.25mm	1205
31	3.2x1.6mm	1206
41	4.5x1.6mm	1806

④Features

Code	Features	
CC	For General	For Signal Lines
PC		For Large Current
PS		High Insertion Loss Type for Large Current
KC		For Very Large Current

⑤Capacitance

Expressed by three figures. The unit is in pico-farad (pF). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures.

⑥Characteristics

Code	Capacitance Temperature Characteristics
B	±10%, ±12.5%, +10/-13%
C	±22%
D	+22/-33%
F	+30/-80%, +30/-84%
R	±15%, +15/-18%

⑦Rated Voltage

Code	Rated Voltage
OE	2.5V
OG	4V
OJ	6.3V
1A	10V
1C	16V
1E	25V
1H	50V
2A	100V

⑧Electrode

Code	Electrode
3	Sn Plating

⑨Packaging

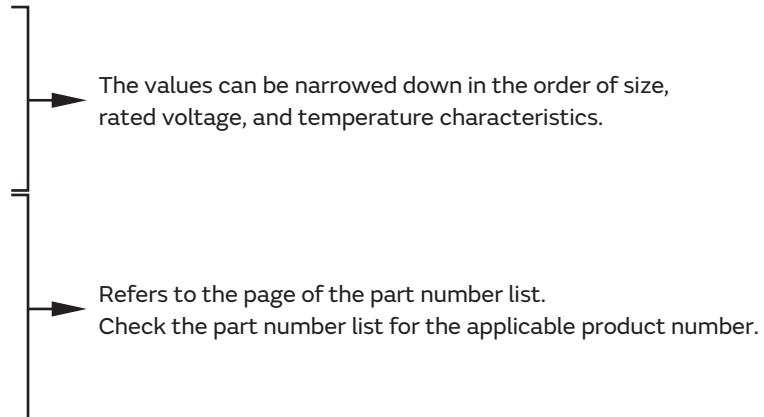
Code	Packaging
B	Bulk
L	Embossed Taping (ø180mm Reel)
D	Paper Taping (ø180mm Reel)

## Capacitance Table

[p00] Each number in the Part Number List refers to the page number printed at the bottom of the page.

### How to read the Capacitance Table

L×W (mm)	0.4×0.2	0.6		
T max. (mm)	0.22	0		
Rated Voltage (Vdc)	25	50		
Cap. / TC Code	COG	CK	COG	CK
0.10pF				
0.20pF	p92	p95	p98	p98
1.0pF	p92	p95		p98
2.0pF	p92	p95		p98
3.0pF	p92	p95		p98



### Temperature Characteristics Table

The Table is colored by temperature characteristic codes.  
Refer to the following Table for the meaning of each code.

EIA:	COG	U2J	X7R	X7S	X7T	X7U	X6S	X6T	X5R
JIS:	CK	CJ	CH	SL	UJ	R		B	

Murata Temperature Characteristic: X8G

Temperature Characteristic Codes		Temperature Characteristics			Operating Temperature Range	Capacitance Change Each Temperature (%)					
						-55°C		*3		-10°C	
		Reference Temperature	Temperature Range	Capacitance Change or Temperature Coefficient		Max.	Min.	Max.	Min.	Max.	Min.
COG	EIA	25°C	25 to 125°C	0±30ppm/°C	-55 to 125°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
CK	JIS	20°C	20 to 125°C	0±250ppm/°C	-55 to 125°C	2.56	-1.88	1.54	-1.13	1.02	-0.75
CJ	JIS	20°C	20 to 125°C	0±120ppm/°C	-55 to 125°C	1.37	-0.9	0.82	-0.54	0.55	-0.36
CH	JIS	20°C	20 to 125°C	0±60ppm/°C	-55 to 125°C	0.82	-0.45	0.49	-0.27	0.33	-0.18
SL	JIS	20°C	20 to 85°C	+350 to -1000ppm/°C	-55 to 125°C	-	-	-	-	-	-
U2J	EIA	25°C	25 to 125°C *2	-750±120ppm/°C	-55 to 125°C	8.78	5.04	6.04	3.47	3.84	2.21
UJ	JIS	20°C	20 to 85°C	-750±120ppm/°C	-25 to 85°C	-	-	4.94	2.84	3.29	1.89
X8G	*1	25°C	25 to 150°C	0±30ppm/°C	-55 to 150°C	0.58	-0.24	0.4	-0.17	0.25	-0.11
X7R	EIA	25°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	-
X7S	EIA	25°C	-55 to 125°C	±22%	-55 to 125°C	-	-	-	-	-	-
X7T	EIA	25°C	-55 to 125°C	+22%, -33%	-55 to 125°C	-	-	-	-	-	-
X7U	EIA	25°C	-55 to 125°C	+22%, -56%	-55 to 125°C	-	-	-	-	-	-
R	JIS	20°C	-55 to 125°C	±15%	-55 to 125°C	-	-	-	-	-	-
X6S	EIA	25°C	-55 to 105°C	±22%	-55 to 105°C	-	-	-	-	-	-
X6T	EIA	25°C	-55 to 105°C	+22%, -33%	-55 to 105°C	-	-	-	-	-	-
X5R	EIA	25°C	-55 to 85°C	±15%	-55 to 85°C	-	-	-	-	-	-
B	JIS	20°C	-25 to 85°C	±10%	-25 to 85°C	-	-	-	-	-	-

\*1 Murata Temperature Characteristic Code.

\*2 Rated Voltage 100Vdc max: 25 to 85°C

\*3 -25°C (Reference Temperature 20°C) / -30°C (Reference Temperature 25°C)

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GRM Series Temperature Compensating Type

p00 ← Part Number List		JIS: CK		CJ		CH		SL		UJ		EIA: COG		U2J											
L×W (mm)	T max. (mm)	0.4×0.2		0.6×0.3		0.33		0.55		1.0×0.5		0.55		1.6×0.8											
Rated Voltage (Vdc)	50	25	16	100	50	25	COG	CH	COG	CA	COG	CA	COG	CH	SL	U2J	UJ	SL	U2J	UJ	SL	U2J	UJ	COG	CA
0.10pF																									
0.20pF	p25	p28					p32	p35	p38	p41			p45	p48	p52	p55									
0.50pF	p25	p28					p32	p35	p38	p41			p45	p48	p52	p55									p59 p63
1.0pF	p25	p28					p32	p35	p38	p41			p45	p49	p52	p55									p60 p63
2.0pF	p25	p28					p32	p35	p38	p42			p46	p49	p52	p56									p60 p63
3.0pF	p25	p29					p32	p35	p39	p42			p46	p49	p53	p56									p60 p63
4.0pF	p26	p29					p33	p36	p39	p42			p46	p49	p53	p56									p60 p64
5.0pF	p26	p29					p33	p36	p39	p43			p46	p50	p53	p57									p61 p64
6.0pF	p26	p30					p33	p36	p40	p43			p47	p50	p53	p57									p61 p64
7.0pF	p27	p30					p34	p37	p40	p43			p47	p50	p54	p57									p61 p65
8.0pF	p27	p30					p34	p37	p40	p44			p47	p51	p54	p58									p62 p65
9.0pF	p27	p31					p34	p37	p41	p44			p48	p51	p55	p58									p62 p65
10pF	p28	p31					p35	p38	p41	p44			p48	p52	p55	p59									p63 p66
11pF	p28	p31																							
12pF	p28	p31					p35	p38	p41	p44			p48	p52	p55	p59									p63 p66
13pF	p28	p31																							
15pF	p28	p31					p35	p38	p41	p44			p48	p52	p55	p59									p63 p66
16pF	p28	p31																							
17pF	p28	p31																							
18pF	p28	p31																							p63 p66
19pF	p28	p31																							
20pF	p28	p31																							
21pF	p28	p31																							
22pF	p28	p31																							p63 p66
23pF	p28	p31																							
24pF	p28	p31																							
27pF	p28	p31																							p63 p66
30pF	p28	p31																							p63 p66
33pF	p28	p31																							p63 p66
36pF	p28	p31																							
39pF	p28	p31																							p63 p66
43pF	p28	p31																							p63 p66
47pF	p28	p31																							p63 p66
51pF	p28	p31																							
56pF	p28	p31																							p63 p66
62pF	p28	p31																							
68pF	p28	p31																							p63 p66
75pF	p28	p31																							
82pF	p28	p31																							p63 p66
91pF	p28	p31																							
100pF	p28	p31																							p63 p66
120pF							p31	p31	p31	p31			p41	p45											
150pF							p31	p31	p31	p32			p41	p45											
180pF							p31	p31	p31	p32			p41	p45											
220pF							p31	p31	p31	p32			p41	p45											
270pF																	p45	p45							
330pF																	p45	p45							
390pF																	p45	p45							
470pF																	p45	p45							
560pF																	p45	p45							
680pF																	p45	p45							
820pF																	p45	p45							
910pF																	p45	p45							
1000pF																	p45	p45							
1200pF																									p63 p66
1500pF																									p63 p66
1800pF																									p63 p66
2200pF																									
2700pF																									
3300pF																									
3900pF																									
4700pF																									
5600pF																									
6800pF																									
8200pF																									
10000pF																									
12000pF																									
15000pF																									
18000pF																									
22000pF																									
27000pF																									
33000pF																									
39000pF																									
47000pF																									
56000pF																									
68000pF																									
82000pF																									
0.10μF																									

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### (→ GRM Series Temperature Compensating Type)

p00 ← Part Number List		JIS:		CK	CJ	CH	SL	UJ	EIA:		COG	U2J													
L×W (mm)	T max. (mm)	1.6×0.8				0.9				0.7				2.0×1.25				0.95				1.0			
Rated Voltage (Vdc)		50		10		100		50		50		100		50		10		250		200					
Cap. / TC Code		COG	CA	SL	U2J	UJ	SL	U2J	UJ	COG	CH	COG	CH	SL	U2J	UJ	COG	CH	SL	U2J	UJ	COG	U2J	COG	U2J
0.10pF																									
0.20pF																									
0.50pF	p66	p69																							
1.0pF	p66	p70																							
2.0pF	p66	p70																							
3.0pF	p67	p70																							
4.0pF	p67	p70																							
5.0pF	p67	p71																							
6.0pF	p68	p71																							
7.0pF	p68	p71																							
8.0pF	p68	p72																							
9.0pF	p69	p72																							
10pF	p69	p73																							
11pF																									
12pF	p69	p73																							
13pF																									
15pF	p69	p73																							
16pF																									
17pF																									
18pF	p69	p73																							
19pF																									
20pF																									
21pF																									
22pF	p69	p73																							
23pF																									
24pF																									
27pF	p69	p73																							
30pF																									
33pF	p69	p73																							
36pF																									
39pF	p69	p73																							
43pF																									
47pF	p69	p73																							
51pF																									
56pF	p69	p73																							
62pF																									
68pF	p69	p73																							
75pF																									
82pF	p69	p73																							
91pF																									
100pF	p69	p73																							
120pF	p69	p73																							
150pF	p69	p73																							
180pF	p69	p73																							
220pF	p69	p73																							
270pF	p69	p73																							
330pF	p69	p73																							
390pF	p69	p73																							
470pF	p69	p73																							
560pF	p69	p73																							
680pF	p69	p73																							
820pF	p69	p73																							
1000pF	p69	p73																							
1200pF	p69	p73	p73	p73	p73	p73																			
1500pF	p69	p73	p73	p73	p73	p73																			
1800pF	p69	p73	p73	p73	p73	p73																			
2200pF	p69	p73	p73	p73	p73	p73																			
2700pF	p69	p73	p73	p73	p73	p73																			
3300pF	p69	p73	p73	p73	p73	p73																			
3900pF	p69	p73	p73	p73	p73	p73																			
4700pF	p69	p73	p73	p73	p73	p73																			
5600pF	p69	p73	p73	p73	p73	p73																			
6800pF	p69	p73	p73	p73	p73	p73																			
8200pF	p69	p73	p73	p73	p73	p73																			
10.0μF																									
0.12μF																									

Continued on the following page. ↗

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### (→ GRM Series Temperature Compensating Type)

p00 ← Part Number List			JIS: CK CJ CH SL UJ			EIA: COG U2J															
L×W (mm)	2.0×1.25									3.2×1.6											
T max. (mm)	1.0			1.35			1.45			0.95			1.0								
Rated Voltage (Vdc)	50	50	10	250	200	100	50	2000	1000	630	500	500	500	500	500	500	500				
Cap. / TC Code	SL	U2J	UJ	COG	CH	SL	U2J	UJ	COG	U2J	U2J	COG	CH	COG	CH	SL	U2J	UJ	COG	U2J	COG
0.10pF																					
0.20pF																					
0.50pF																					
1.0pF																					
2.0pF																					
3.0pF																					
4.0pF																					
5.0pF																					
6.0pF																					
7.0pF																					
8.0pF																					
9.0pF																					
10pF																	p76	p76	p76	p76	p76
11pF																					
12pF																	p76	p76	p76	p76	p76
13pF																					
15pF																	p76	p76	p76	p76	p77
16pF																					
17pF																					
18pF																	p76	p76	p76	p76	p77
19pF																					
20pF																					
21pF																					
22pF																	p76	p76	p76	p76	p77
23pF																					
24pF																					
27pF																	p76	p76	p76	p76	p77
30pF																					
33pF																	p76	p76	p76	p76	p77
36pF																					
39pF																	p76	p76	p76	p76	p77
43pF																					
47pF																	p76	p76	p76	p76	p77
51pF																					
56pF																	p76	p76	p76	p76	p77
62pF																					
68pF																	p76	p76	p76	p76	p77
75pF																					
82pF																	p76	p76	p76	p77	p77
91pF																					
100pF																	p76	p76	p76	p77	p77
120pF																	p76	p76	p76	p77	p77
150pF																	p76	p76	p76	p77	p77
180pF																	p76	p76	p76	p77	p77
220pF																	p76	p76	p76	p77	p77
270pF																	p76	p76	p76	p77	p77
330pF																	p76	p76	p76	p77	p77
390pF																	p76	p76	p76	p77	p77
470pF																	p76	p76	p76	p77	p77
560pF																					
680pF																					
820pF																					
910pF																					
1000pF																					
1200pF																					
1500pF																					
1800pF																	p75	p75			
2200pF																	p75	p75			
2700pF																					
3300pF																	p75	p75	p75	p75	
3900pF																	p75	p75	p75	p75	
4700pF																	p75	p75	p75	p75	
5600pF																	p75	p75	p75	p76	
6800pF																					
8200pF																					
10000pF																					
12000pF																					
15000pF																					
18000pF																					
22000pF																					
27000pF																					
33000pF																					
39000pF																					
47000pF																					
56000pF																					
68000pF																					
82000pF																					
0.10μF																					
0.12μF																					

Continued on the following page. ↗

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### (→ GRM Series Temperature Compensating Type)

p00 ← Part Number List		JIS: CK		CJ		CH		SL		UJ		EIA: COG		U2J							
L×W (mm)	T max. (mm)	1.0		3.2×1.6								1.25		1.8							
Rated Voltage (Vdc)	500	250	200	1000	630	500	250	200	100	50	1000	630	500	250							
Cap. / TC Code	U2J	COG	U2J	U2J	COG	U2J	COG	U2J	COG	UH	COG	CH	SL	U2J	UJ	COG	U2J	COG	U2J	COG	U2J
0.10pF																					
0.20pF																					
0.50pF																					
1.0pF																					
2.0pF																					
3.0pF																					
4.0pF																					
5.0pF																					
6.0pF																					
7.0pF																					
8.0pF																					
9.0pF																					
10pF	p77																				
11pF																					
12pF	p77																				
13pF																					
15pF	p77																				
16pF																					
17pF																					
18pF	p77																				
19pF																					
20pF																					
21pF																					
22pF	p77																				
23pF																					
24pF																					
27pF	p77																				
30pF																					
33pF	p77																				
36pF																					
39pF	p77																				
43pF																					
47pF	p77																				
51pF																					
56pF	p77																				
62pF																					
68pF	p77																				
75pF																					
82pF	p77																				
91pF																					
100pF	p77																				
120pF	p77																				
150pF	p77																				
180pF	p77																				
220pF	p77																				
270pF	p77																				
330pF	p77																				
390pF	p77	p77																			
470pF	p77	p77																			
560pF	p77	p77																			
680pF	p77	p77																			
820pF	p77	p77																			
910pF																					
1000pF	p77	p77																			
1200pF	p77	p77																			
1500pF	p77	p77																			
1800pF	p77	p77																			
2200pF	p77	p77																			
2700pF		p77	p77	p77																	
3300pF		p77	p77	p77																	
3900pF		p77	p77	p77																	
4700pF		p77	p77	p77																	
5600pF		p77	p77	p77																	
6800pF		p77																			
8200pF																					
10000pF																					
12000pF																					
15000pF																					
18000pF																					
22000pF																					
27000pF																					
33000pF																					
39000pF																					
47000pF																					
56000pF																					
68000pF																					
82000pF																					
0.10μF																					
0.12μF																					

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## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series Temperature Compensating Type)

Continued on the following page. 

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### (→ GRM Series Temperature Compensating Type)

p00	← Part Number List		JIS:		CK	CJ	CH	SL	UJ		EIA:	COG	U2J
	L×W (mm)		4.5×3.2		5.7×5.0								
	T max. (mm)		2.0		1.5		2.0						
Rated Voltage (Vdc)	1000	630	500	1000	630	500	1000	630	500				
Cap. / TC Code	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J	U2J				
0.10pF													
0.20pF													
0.50pF													
1.0pF													
2.0pF													
3.0pF													
4.0pF													
5.0pF													
6.0pF													
7.0pF													
8.0pF													
9.0pF													
10pF													
11pF													
12pF													
13pF													
15pF													
16pF													
17pF													
18pF													
19pF													
20pF													
21pF													
22pF													
23pF													
24pF													
27pF													
30pF													
33pF													
36pF													
39pF													
43pF													
47pF													
51pF													
56pF													
62pF													
68pF													
75pF													
82pF													
91pF													
100pF													
120pF													
150pF													
180pF													
220pF													
270pF													
330pF													
390pF													
470pF													
560pF													
680pF													
820pF													
910pF													
1000pF													
1200pF													
1500pF													
1800pF													
2200pF													
2700pF													
3300pF													
3900pF	p79												
4700pF	p79												
5600pF				p79									
6800pF				p79									
8200pF						p79							
10000pF							p79						
12000pF													
15000pF		p79	p79										
18000pF		p79	p79										
22000pF		p79	p79										
27000pF				p79	p79								
33000pF							p79	p79					
39000pF								p79	p79				
47000pF									p79	p79			
56000pF													
68000pF													
82000pF													
0.10μF													
0.12μF													

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GRM Series High Dielectric Constant Type

p00	← Part Number List		JIS: R B		EIA: X7R X7S X7T X7U X6S X6T X5R		
L×W (mm)	0.4×0.2		0.6×0.3		1.0×0.5		
T max. (mm)	0.22		0.33		0.22		
Rated Voltage (Vdc)	16	10	6.3	4	2.5	50	35
Cap. / TC Code	X7R	X7R	X5R, B	X5R, B	X6T	X5R	X7R, B
100pF	p80	p80	p80	p80		p81	p81
150pF	p80	p80	p80	p80		p81	p81
220pF	p80	p80	p80	p80		p81	p81
330pF	p80	p80	p80	p80		p81	p81
470pF	p80	p80	p80	p80		p81	p81
680pF	p80	p80	p80	p80		p81	p81
820pF	p80						
1000pF	p80	p80	p80	p80	p80	p81	p81
1500pF			p80	p80	p80	p81	p81
2200pF	p80	p80	p80	p80		p81	p81
3300pF	p80	p80	p80	p80		p81	p81
4700pF	p80	p80	p80	p80		p81	p81
6800pF	p80	p80	p80	p80		p81	p81
10000pF	p80	p80	p80	p80		p81	p81
15000pF			p80	p80		p81	p82
22000pF			p80	p80		p81	p82
33000pF			p80	p81		p81	p82
47000pF			p80	p81		p81	p82
68000pF			p80	p81		p81	p82
0.10μF			p80	p80	p81	p81	p81
0.15μF							
0.22μF							
0.33μF							
0.47μF							
0.68μF							
1.0μF							
2.2μF							
4.7μF							
10μF							
22μF							
47μF							
100μF							
150μF							
220μF							

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## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>		← Part Number List		JIS:		R	B	EIA:		X7R	X7S	X7T	X7U	X6S	X6T	X5R	X5					
1.0×0.5																						
0.22																						
0.3																						
0.33																						
0.55																						
2.5																						
50																						
25																						
16																						
10																						
6.3																						
4																						
100																						
50																						
35																						
25																						
16																						
10																						
Rated Voltage (Vdc)		X5R	X7T	X7R, R	B	X7R	B	X5R	X5R, B	X6T	X5R, B	X6T	X7R	X7R, R	X6S	X5R						
Cap. / TC Code		X5R	X7T	X7R, R	B	X7R	B	X5R	X5R, B	X6T	X5R, B	X6T	X7R	X7R, R	X6S	X5R, B	X7R	X6S				
100pF																						
150pF																						
220pF			p83	p83	p83								p83	p83	p84		p84					
330pF			p83	p83	p83								p83	p83	p84		p84					
470pF			p83	p83	p83								p83	p83	p84		p84					
680pF			p83	p83	p83								p83	p83	p84		p84					
820pF																						
1000pF			p83	p83	p83								p83	p83	p84		p84					
1500pF			p83	p83	p83								p83	p83	p84		p84					
2200pF						p83	p83						p83	p83	p84		p84					
3300pF								p83	p83				p83	p83	p84		p84					
4700pF									p83	p83			p83	p84	p84							
6800pF										p83	p83				p84		p84					
10000pF											p83	p83				p84		p84				
15000pF												p83				p84		p84				
22000pF												p83				p84		p84				
33000pF													p83				p84		p84			
47000pF														p84	p84			p85				
68000pF														p84	p84							
0.10μF			p83																			
0.15μF																						
0.22μF			p83																			
0.33μF																						
0.47μF																						
0.68μF																						
1.0μF	p83																					
2.2μF																						
4.7μF																						
10μF																						
22μF																						
47μF																						
100μF																						
150μF																						
220μF																						

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## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

p00	← Part Number List	JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5T	X5R
L×W (mm)	1.0×0.5												
T max. (mm)	0.55												
Rated Voltage (Vdc)	10	6.3	4	35	25	16	6.3	4	2.5	10	6.3	25	16
Cap. / TC Code	X5R, B	X7R	X6S	X5R, B	X7R	X6S	X5R	X6S	X5R, B	X5R, B	X6T	X5R	X6S
100pF													
150pF													
220pF													
330pF													
470pF													
680pF													
820pF													
1000pF													
1500pF													
2200pF													
3300pF													
4700pF													
6800pF													
10000pF													
15000pF													
22000pF													
33000pF	p85												
47000pF													
68000pF													
0.10μF	p85			p85									
0.15μF	p85	p85		p85	p85								
0.22μF	p85	p85	p85	p85	p85	p85							
0.33μF	p85	p85	p85	p85	p85	p85							
0.47μF	p85	p85	p85	p85	p85	p85							
0.68μF	p85	p85	p85	p85	p85	p85							
1.0μF	p85	p85	p85	p85	p85	p85	p85	p85	p85	p85	p85	p85	p85
2.2μF	p85		p85	p85							p86	p86	p86
4.7μF											p86	p86	p86
10μF												p86	p86
22μF													p86
47μF													p86
100μF													
150μF													
220μF													

Continued on the following page. ↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>		← Part Number List		JIS:		R	B	EIA:		X7R	X7S	X7T	X7U	X6S	X6T	X6R	X5R					
1.6×0.8																						
0.55																						
0.9																						
0.95																						
1.0																						
<b>Rated Voltage (Vdc)</b>	16	10	6.3	250	200	50	35	25	16	10	6.3	4	25	16	10	50	35					
<b>Cap. / TC Code</b>	X5R	X6S	X5R	X7T	X6S	X7R	X7R	X5R, B	X7R	X7R	X5R, B	X7R	X6S	X5R, B	X5R	X5R	X6S	X5R				
100pF																						
150pF																						
220pF						<b>p86</b>	<b>p86</b>															
330pF						<b>p86</b>	<b>p86</b>															
470pF						<b>p86</b>	<b>p86</b>															
680pF						<b>p86</b>	<b>p86</b>															
820pF																						
1000pF						<b>p86</b>	<b>p86</b>															
1500pF						<b>p86</b>	<b>p86</b>															
2200pF						<b>p86</b>	<b>p86</b>															
3300pF																						
4700pF																						
6800pF																						
10000pF																						
15000pF																						
22000pF																						
33000pF																						
47000pF																						
68000pF																						
0.10μF																						
0.15μF																						
0.22μF																						
0.33μF																						
0.47μF							<b>p86</b>															
0.68μF								<b>p86</b>	<b>p86</b>													
1.0μF						<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>											
2.2μF							<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>					<b>p86</b>	<b>p86</b>					
4.7μF	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>							<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>					
10μF												<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>	<b>p86</b>					
22μF																						
47μF																						
100μF																						
150μF																						
220μF																						

Continued on the following page.↗

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

p00	← Part Number List	JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5R										
L×W (mm)																						
1.6×0.8																						
1.0																						
0.7																						
Rated Voltage (Vdc)	25	16	10	6.3	4	16	50	35	25	16	10	6.3	4	2.5	500							
Cap. / TC Code	X7S	X6S	X5R	X7S	X6S	X7T	X7T	X5R, B	X6S	X5R, B	X6S	X5R	X7R	X6S	X5R, B	X7Δ	X5R, B	X6S	X5R	X6T	X7R	
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
820pF																						
1000pF																						p87
1500pF																						p87
2200pF																						p87
3300pF																						p87
4700pF																						p87
6800pF																						p87
10000pF																						
15000pF																						
22000pF																						
33000pF																						
47000pF																						
68000pF																						
0.10μF																						
0.15μF																						
0.22μF																						
0.33μF																						
0.47μF																						
0.68μF																						
1.0μF																						
2.2μF	p87	p87		p87																		
4.7μF	p87			p87	p87	p87																
10μF		p87		p87	p87	p87																
22μF							p87 p87	p87 p87	p87 p87													
47μF																						
100μF																						
150μF																						
220μF																						

Continued on the following page. ↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>	← Part Number List		JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5R									
L×W (mm)																						
2.0×1.25																						
T max. (mm)																						
Rated Voltage (Vdc)	250	200	35	25	16	50	25	16	50	25	16	10	6.3	4	500	250	200	50				
Cap. / TC Code	X7R	X7R	X6S	X7S	X6S	X7S	X5R	X5R, B	X6S	X5R, B	X7R	X5R, B	X5R, B	X7R, R	X5R, B	X7R	X6S	X7R	X6S	X7R	X7R	X7S
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
820pF																						
1000pF	p87	p87																				
1500pF	p87	p87																				
2200pF	p87	p87																				
3300pF	p87	p87																				
4700pF	p87	p87																				
6800pF	p87	p87																				
10000pF																			p88	p88	p88	
15000pF																			p88	p88	p88	
22000pF																			p88	p88	p88	
33000pF																						
47000pF																						
68000pF																						
0.10μF																						
0.15μF																						
0.22μF																						
0.33μF																						
0.47μF																						
0.68μF																						
1.0μF																						
2.2μF																						
4.7μF	p87	p87	p87	p87																		p88
10μF																						
22μF																						
47μF																						
100μF																						
150μF																						
220μF																						

Continued on the following page.↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>	← Part Number List		JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5R									
L×W (mm)	2.0×1.25													3.2×1.6								
T max. (mm)	1.45													0.95				1.0		1.25		
Rated Voltage (Vdc)	50	35	25	16	10	6.3	4	2.5	35	16	10	6.3	630	1000	630	500						
Cap. / TC Code	X6S	X7S	X6S	X5R	X7S	X6S	X5R	X7T	X6S	X5R	X7T	X5R, B	X6S	X5R, B	X6S	X5R	X5R, B	X5R, B	X6S	X7R	X7R	X7R
100pF																						
150pF																						
220pF																						
330pF																						
470pF																						
680pF																						
820pF																						
1000pF																						
1500pF																						
2200pF																						
3300pF																						
4700pF																						
6800pF																						
10000pF																						
15000pF																						
22000pF																						
33000pF																						
47000pF																						
68000pF																						
0.10μF																						
0.15μF																						
0.22μF																						
0.33μF																						
0.47μF																						
0.68μF																						
1.0μF																						
2.2μF																						
4.7μF	p88	p88			p88																	
10μF		p88	p88	p88	p88	p88	p88											p88	p88	p88		
22μF					p88			p88	p88	p88	p88	p88	p88					p88	p88	p88	p88	
47μF										p88		p88	p88	p88	p88	p88						
100μF											p88	p88					p88					
150μF																						
220μF																						

Continued on the following page.↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>	← Part Number List		JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5R											
L×W (mm)	3.2×1.6																							
T max. (mm)	1.25		1.8												1.9									
Rated Voltage (Vdc)	250	200	50	25	1000	630	500	250	200	100	50	25	16	10	6.3	4	100	25						
Cap. / TC Code	X7R	X7R	X7R	B	X5R	X7R	X7R	X7R	X7R	X7R	X7R	X5R, B	X7R	X5R, B	X7R	X6S	X5R, B	X7Δ	X6S	X5R, B	X7U	X6S	X7R	X6S
100pF																								
150pF																								
220pF																								
330pF																								
470pF																								
680pF																								
820pF																								
1000pF																								
1500pF																								
2200pF																								
3300pF																								
4700pF																								
6800pF																								
10000pF																								
15000pF	p89	p89																						
22000pF	p89	p89																						
33000pF																								
47000pF																								
68000pF	p89	p89																						
0.10μF																								
0.15μF																								
0.22μF																								
0.33μF																								
0.47μF																								
0.68μF																								
1.0μF		p89	p89																					
2.2μF																								
4.7μF																								
10μF			p89																					
22μF																								
47μF																								
100μF																								
150μF																								
220μF																								

Continued on the following page. ↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>		← Part Number List		JIS:		R	B	EIA:		X7R	X7S	X7T	X7U	X6S	X6T	X5R
L×W (mm)		3.2×1.6		1.9		1.5		1.8		2.0		2.2		2.7		
T max. (mm)		1.6		10		6.3		4		2.5		1000	630	500	250	200
Rated Voltage (Vdc)		16		10		6.3		4		2.5		1000	630	500	250	200
Cap. / TC Code	X7S	X5R	X6S	X6T	X5R	X7U	X6Δ	X5R	X6S	X5R	X7R	X7R	X7R	X7R	X7R	X7R
100pF																
150pF																
220pF																
330pF																
470pF																
680pF																
820pF																
1000pF																
1500pF																
2200pF																
3300pF																
4700pF																
6800pF																
10000pF																
15000pF																
22000pF																
33000pF																
47000pF																
68000pF																
0.10μF																
0.15μF																
0.22μF																
0.33μF																
0.47μF																
0.68μF																
1.0μF																
2.2μF																
4.7μF																
10μF																
22μF	p89															
47μF		p89	p89													
100μF			p89	p89	p89	p89	p89									
150μF				p89	p89	p89	p89									
220μF						p89		p89								

Continued on the following page.↗

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

(→ GRM Series High Dielectric Constant Type)

<b>p00</b>	← Part Number List		JIS:	R	B	EIA:	X7R	X7S	X7T	X7U	X6S	X6T	X5R				
3.2×2.5																	
2.7																	
<b>Rated Voltage (Vdc)</b>	50	35	25	16	10	6.3	4	630	500	250	200	1000	630	500	250	200	
<b>Cap. / TC Code</b>	X5R, B	X7R	X5R, B	X7R	X5R, B	X7R	X6S	X5R, B	X7R	X5R, B	X7Δ	X5R, B	X7U	X7R	X7R	X7R	X7R
100pF																	
150pF																	
220pF																	
330pF																	
470pF																	
680pF																	
820pF																	
1000pF																	
1500pF																	
2200pF																	
3300pF																	
4700pF																	
6800pF																	
10000pF																	
15000pF																	
22000pF																	
33000pF																	
47000pF																	
68000pF																	
0.10μF																	
0.15μF																	
0.22μF																	
0.33μF																	
0.47μF																	
0.68μF																	
1.0μF																	
2.2μF																	
4.7μF																	
10μF	p90	p90	p90	p90													
22μF					p90	p90	p90	p90									
47μF						p90	p90	p90	p90	p90							
100μF									p90	p90	p90	p90	p90				
150μF																	
220μF																	

## Capacitance Table

[p00] Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GJM Series Temperature Compensating Type

[p00] ← Part Number List      JIS: CK CJ CH      EIA: COG

L×W (mm)	0.4×0.2		0.6×0.3				1.0×0.5			
T max. (mm)	0.22		0.33				0.55			
Rated Voltage (Vdc)	25		50			25		50		
Cap. / TC Code	COG	CΔ	COG	CK	CJ	CH	COG	CΔ	COG	CΔ
0.10pF									p105	p109
0.20pF	p92	p95	p98	p98		p98			p105	p109
1.0pF	p92	p95		p98			p99	p102	p105	p109
2.0pF	p92	p95		p98			p99	p102	p105	p109
3.0pF	p92	p95			p98		p99	p102	p106	p109
4.0pF	p93	p96					p99	p103	p106	p110
5.0pF	p93	p96					p100	p103	p106	p110
6.0pF	p93	p96					p100	p103	p107	p110
7.0pF	p94	p97					p100	p104	p107	p111
8.0pF	p94	p97					p101	p104	p107	p111
9.0pF	p94	p98					p101	p104	p108	p111
10pF	p95	p98					p102	p105	p108	p112
11pF	p95	p98					p102	p105	p108	p112
12pF	p95	p98					p102	p105	p108	p112
13pF	p95	p98					p102	p105	p108	p112
15pF	p95	p98					p102	p105	p108	p112
16pF	p95	p98					p102	p105	p108	p112
18pF	p95	p98					p102	p105	p108	p112
20pF	p95	p98					p102	p105	p108	p112
22pF	p95	p98					p102	p105	p108	p112
24pF							p102	p105	p108	p112
27pF							p102	p105	p108	p112
30pF							p102	p105	p108	p112
33pF							p102	p105	p108	p112
36pF								p108	p112	
39pF								p108	p112	
43pF								p108	p112	
47pF								p109	p112	

The indication for every 0.1 pF has been omitted for less than 10 pF.  
 Refer to the Part Number List for details.

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GMA Series High Dielectric Constant Type

p00 ← Part Number List JIS: R B EIA: X7R X5R

L×W (mm)	0.38×0.38			0.5×0.5						0.8×0.8									
T max. (mm)	0.35			0.4						0.6									
Rated Voltage (Vdc)	10			100		25		10			6.3		100		25		10		
Cap. / TC Code	X7R	R	B	X7R	X7R	B	X7R	R	B	X5R	B	X7R	X7R	B	X7R	R	B	X5R	B
100pF				p115															
150pF				p115															
220pF				p115															
330pF				p115															
470pF				p115															
680pF				p115															
1000pF	p115	p115	p115	p115															
1500pF	p115	p115	p115		p115	p115							p115						
1800pF	p115	p115	p115																
2200pF				p115	p115								p115						
3300pF				p115	p115								p115						
4700pF				p115	p115								p115						
6800pF						p115	p115	p115					p115						
10000pF	p115	p115				p115	p115	p115					p115	p115					
15000pF						p115	p115	p115					p115	p115					
22000pF						p115	p115	p115					p115	p115					
33000pF															p115	p115	p115		
47000pF															p115	p115	p115		
68000pF															p115	p115	p115		
0.10μF										p115	p115				p115	p115	p115		
0.47μF																		p115	p115

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GMD Series High Dielectric Constant Type

**p00** ← Part Number List    JIS: **R** **B**    EIA: **X7R** **X5R**

L×W (mm)	0.6×0.3									1.0×0.5									10					
T max. (mm)	0.33									0.55														
Rated Voltage (Vdc)	25			16			10			6.3			50			25			16					
Cap. / TC Code	X7R	R	B	X7R	R	B	X7R	R	B	X5R	B	X7R	R	B	X7R	R	B	X7R	R	B	X5R	B		
100pF	p117	p117	p117																					
120pF	p117	p117	p117																					
150pF	p117	p117	p117																					
180pF	p117	p117	p117																					
220pF	p117	p117	p117													p117	p117	p118						
270pF	p117	p117	p117														p117	p118	p118					
330pF	p117	p117	p117														p117	p118	p118					
390pF	p117	p117	p117														p117	p118	p118					
470pF	p117	p117	p117														p117	p118	p118					
560pF	p117	p117	p117														p117	p118	p118					
680pF	p117	p117	p117														p117	p118	p118					
820pF	p117	p117	p117														p117	p118	p118					
1000pF	p117	p117	p117														p117	p118	p118					
1200pF	p117	p117	p117														p117	p118	p118					
1500pF	p117	p117	p117														p117	p118	p118					
1800pF																	p117	p118	p118					
2200pF																	p117	p118	p118					
2700pF																	p117	p118	p118					
3300pF																	p117	p118	p118					
3900pF																	p117	p118	p118					
4700pF																	p117	p118	p118					
5600pF																	p117	p118	p118					
6800pF																	p118	p118	p118					
8200pF																	p118	p118	p118					
10000pF																	p118	p118	p118					
12000pF																	p118	p118	p118					
15000pF																	p118	p118	p118					
18000pF																	p118	p118	p118					
22000pF																	p118	p118	p118					
27000pF																	p118	p118	p118					
33000pF																	p118	p118	p118					
39000pF																	p118	p118	p118					
47000pF																	p118	p118	p118					
56000pF																		p118	p118	p118				
68000pF																		p118	p118	p118				
82000pF																		p118	p118	p118				
0.10μF																		p118	p118	p118				
0.12μF																			p118	p118	p118			
0.15μF																			p118	p118	p118			
0.18μF																			p118	p118	p118			
0.22μF																			p118	p118	p118			
0.27μF																			p118	p118	p118			
0.33μF																			p118	p118	p118			
0.39μF																			p118	p118	p118			
0.47μF																			p118	p118	p118			

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GQM Series Temperature Compensating Type

p00	← Part Number List	JIS:	CK	CJ	CH	EIA:	COG	Murata Temperature Characteristic:	X8G
L×W (mm)	1.0×0.5		1.6×0.8					2.0×1.25	2.8×2.8
T max. (mm)	0.55	0.8		0.9				0.95	1.0
Rated Voltage (Vdc)	200	100	250	100	50	100	50	500	250
Cap. / TC Code	COG	COG	COG	COG	CA	COG	CH	X8G	COG
0.10pF	p120								
1.0pF	p120		p121	p121	p122		p124	p124	
2.0pF	p120		p121	p122	p122		p124	p124	
3.0pF	p120		p121	p122	p122		p124	p124	
4.0pF	p120		p121	p122	p122		p124	p125	
5.0pF	p120		p121	p122	p122		p124	p125	
6.0pF	p120		p121	p122	p122		p124	p125	
7.0pF	p120		p121			p122	p123	p124	p125
8.0pF	p120		p121			p122	p123	p124	p125
9.0pF	p120		p121			p122	p123	p124	p125
10pF	p120		p121			p122	p123	p124	p125
11pF	p120		p121			p122	p123	p124	p125
12pF	p120		p121			p123	p123	p124	p125
13pF	p120		p121			p123	p123	p124	p125
15pF	p120		p121			p123	p123	p124	p125
16pF	p120		p121			p123	p123	p124	p125
18pF	p120		p121			p123	p123	p124	p125
20pF	p120		p121			p123	p123	p125	p125
22pF	p120		p121			p123	p123	p125	p125
24pF	p120		p121			p123	p123	p125	p125
27pF	p120		p121			p123	p123	p125	p125
30pF	p120		p121			p123	p123	p125	p125
33pF	p120		p121			p123	p123	p125	p125
36pF		p120	p121			p123	p123	p125	p125
39pF		p121	p121			p123	p123	p125	p125
43pF		p121	p121			p123	p123	p125	p125
47pF		p121	p121			p123	p123	p125	p125
51pF						p123	p123	p125	p125
56pF						p123	p123	p125	p125
62pF						p123	p123	p125	p125
68pF						p123	p123	p126	p126
75pF						p123	p123	p126	p126
82pF						p123	p123	p126	p126
91pF						p123	p123	p126	p126
100pF						p123	p123	p126	p126

The indication for every 0.1 pF has been omitted for less than 10 pF.  
 Refer to the Part Number List for details.

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GRJ Series High Dielectric Constant Type

p00 ← Part Number List EIA: X7R X7S X5R

L×W (mm)	1.6×0.8							2.0×1.25							3.2×1.6									
T max. (mm)	0.9						1.0	0.7		0.95	1.0	1.45						1.5	0.95		1.25			
Rated Voltage (Vdc)	100	50	35	25	16	6.3	6.3	100	50	100	250	250	100	50	25	16	10	100	100	50	1000	630		
Cap. / TC Code	X7R	X7R	X5R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R		
220pF																								
470pF																								
680pF																								
1000pF	p133	p133								p133	p133			p133								p134	p134	
1500pF																						p134	p134	
2200pF	p133	p133								p133	p133			p133								p134	p134	
3300pF																						p134	p134	
4700pF	p133	p133								p133	p133			p133								p134	p134	
6800pF																							p134	
10000pF	p133	p133								p133	p133			p133									p134	
15000pF																								
22000pF	p133	p133								p133	p133			p133										
33000pF																								
47000pF		p133			p133																			
68000pF																								
0.10μF	p133	p133																					p134	p134
0.15μF																								
0.22μF	p133			p133																				
0.33μF																								
0.47μF					p133																			
0.68μF																								
1.0μF			p133	p133																				
2.2μF								p133																
4.7μF									p133															
10μF																								
22μF																								
47μF																								

Continued on the following page. ↗

## Capacitance Table

[p00] Each number in the Part Number List refers to the page number printed at the bottom of the page.

3.2×1.6														3.2×2.5							L×W (mm)	
1.25	1.35			1.8			1.9					1.5			2.0			2.3		T max. (mm)		
250	100	50	25	16	1000	630	250	100	50	25	16	10	6.3	1000	630	250	1000	630	250	100		Rated Voltage (Vdc)
X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S	Cap. / TC Code		
																					220pF	
																					470pF	
																					680pF	
																					1000pF	
																					1500pF	
																					2200pF	
																					3300pF	
																					4700pF	
																					6800pF	
																					10000pF	
p134																					15000pF	
p134																					22000pF	
																					33000pF	
p134																					47000pF	
																					68000pF	
	p134																				0.10μF	
		p134																			0.15μF	
			p134	p134																	0.22μF	
					p134																0.33μF	
						p134															0.47μF	
							p134														0.68μF	
								p134	p134												1.0μF	
									p134												2.2μF	
										p134	p134										4.7μF	
											p134										10μF	
												p134	p134								22μF	
													p134	p134							47μF	

Continued to the following table. ↴

L×W (mm)	3.2×2.5							4.5×3.2					5.7×5.0						
T max. (mm)	2.8					1.5			2.0			2.0							
Rated Voltage (Vdc)	50	25	16	10	6.3	630	250	1000	630	250	1000	630	250	1000	630	250	1000		
Cap. / TC Code	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R		
33000pF																			
47000pF																			
68000pF																			
0.10μF																			
0.15μF																			
0.22μF																			
0.33μF																			
0.47μF																			
0.68μF																			
1.0μF																			
2.2μF																			
4.7μF	p134																		
10μF	p134	p134	p134																
22μF						p134	p134												
47μF							p134	p134											

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GR3 Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7T**

L×W (mm)	2.0×1.25		3.2×1.6						3.2×2.5				4.5×3.2				5.7×5.0				
T max. (mm)	1.0	1.45	1.0		1.25		1.8		1.5		2.0		1.5		2.0		2.0		2.7		
Rated Voltage (Vdc)	250	250	450	250	630	450	250	630	450	250	630	250	630	450	250	250	630	450	250	630	250
Cap. / TC Code	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T
10000pF	p131		p131		p131																
15000pF	p131		p131					p131													
22000pF		p131			p131				p131												
33000pF			p131		p131							p131									
47000pF				p131		p131					p131										
68000pF							p131					p131			p131						
0.10µF									p131		p131						p131		p131		
0.15µF																					
0.22µF															p131				p131		p131
0.33µF																	p131			p131	
0.47µF																		p131		p131	
0.68µF																			p131		
1.0µF																					p131

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### LLA Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7R** **X7S**

L×W (mm)	1.6×0.8	2.0×1.25										3.2×1.6										
T max. (mm)	0.55	0.55					0.95					0.55					0.95					1.25
Rated Voltage (Vdc)	4	25	16	10	6.3	4	25	16	10	6.3	4	16	10	6.3	16	10	16	10	16	10	16	
Cap. / TC Code	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	
1000pF		p137					p137															
2200pF		p137					p137															
4700pF			p137				p137															
0.10μF	p137		p137					p137														
0.22μF	p137			p137				p137					p137									
0.47μF	p137				p137				p137					p137		p137						
1.0μF					p137				p137						p137		p137	p137				
2.2μF	p137									p137					p137						p137	
4.7μF						p137																

### LLL Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7R** **X7S** **X6S** **X5R**

L×W (mm)	0.5×1.0			0.6×1.0		0.8×1.6										1.25×2.0													
T max. (mm)	0.35			0.45		0.5					0.55		0.6					0.5					0.7						
Rated Voltage (Vdc)	6.3	4	4	25	16	10	4	4	50	25	16	10	4	50	25	16	10	6.3	4	50	25	16	10	6.3	4	50	25		
Cap. / TC Code	X6S	X7S	X6S	X5R	X7R	X7R	X7S	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R			
2200pF														p139															
4700pF														p139															
10000pF						p139									p139											p139			
22000pF							p139								p139											p139			
47000pF								p139								p139											p139		
0.10μF	p139							p139									p139										p139		
0.22μF	p139								p139									p139										p139	
0.47μF		p139																											
1.0μF			p139																									p139	
2.2μF														p139															
4.3μF						p139																							
4.7μF																													
10μF																													

Continued to the following table. ↗

L×W (mm)	1.25×2.0				1.6×3.2										1.25				
T max. (mm)	0.7	0.95			0.5					0.8					1.25				
Rated Voltage (Vdc)	10	16	10	4	50	25	16	10	50	25	16	10	6.3	50	25	16	10	6.3	
Cap. / TC Code	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X5R	
2200pF																			
4700pF																			
10000pF						p139					p139								
22000pF							p139				p139								
47000pF								p139			p139								
0.10μF								p139				p139							
0.22μF	p139	p139						p139				p139							
0.47μF			p139						p139			p139							
1.0μF			p139									p139							
2.2μF				p139									p139						
4.3μF																			
4.7μF																			
10μF																			

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### LLM Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7R** **X7S**

L×W (mm)	2.0×1.25		3.2×1.6		
T max. (mm)	0.55		0.55		
Rated Voltage (Vdc)	6.3	4	16	10	6.3
Cap. / TC Code	X7R	X7S	X7R	X7R	X7R
0.10µF			p141		
0.22µF	p141		p141		
0.47µF	p141			p141	
1.0µF		p141			
2.2µF					p141

### LLR Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7S**

L×W (mm)	0.8×1.6		
T max. (mm)	0.55		
Rated Voltage (Vdc)	4		
TC Code	X7S		
Cap. / ESR (mΩ)	100	220	470
1.0µF	p143	p143	p143
2.2µF			p143

### KR3 Series High Dielectric Constant Type

**p00** ← Part Number List    EIA: **X7T**

L×W (mm)	6.1×5.3										
T max. (mm)	3.0			3.9			5.0			6.7	
Rated Voltage (Vdc)	630	450	250	630	450	250	450	250	630	450	250
Cap. / TC Code	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T	X7T
0.10µF	p149										
0.15µF	p149										
0.22µF		p149		p149							
0.27µF				p149							
0.33µF		p149									
0.47µF		p149	p149						p149		
0.56µF				p149					p149		
0.68µF			p149				p149				
1.0µF					p149	p149					
1.2µF									p149		
1.5µF							p149				
2.2µF										p149	

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### KRM Series High Dielectric Constant Type

p00 ← Part Number List EIA: X7R X7S X6S X5R

L×W (mm)	2.2×1.25				3.5×1.7				3.6× 1.7	3.7× 1.85	6.1×5.3										
T max. (mm)	1.9		2.0		2.0		2.9		2.9		3.0		3.9								
Rated Voltage (Vdc)	25	16	25		25	100	50	35	25	50	100	1000	630	250	100	63	50	35	25	100	63
Cap. / TC Code	X5R	X5R	X7S	X6S	X5R	X5R	X7R	X7R	X6S	X6S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R
68000pF																					
0.10µF																					
0.15µF																					
0.22µF																					
0.33µF																					
0.47µF																					
0.68µF																					
1.0µF																					
1.5µF																					
2.2µF																					
4.7µF																					
6.8µF																					
10µF	p146	p146	p146	p146		p146			p146	p146										p146	p146
15µF																			p146	p146	
17µF																					
22µF					p146																
33µF																					
47µF																					
68µF																					

Continued to the following table. ↗

L×W (mm)	6.1×5.3															
T max. (mm)	3.9			5.0				6.7								
Rated Voltage (Vdc)	50	35	25	1000	630	250	100	50	35	25	100	63	50	35	25	
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R
68000pF																
0.10µF																
0.15µF					p146											
0.22µF					p146											
0.33µF						p146										
0.47µF						p146										
0.68µF																
1.0µF																
1.5µF							p146									
2.2µF							p146									
4.7µF																
6.8µF																
10µF								p146								
15µF												p146				
17µF	p146	p146														
22µF		p146	p146						p146	p146		p146	p146			
33µF			p146						p146	p146				p146		
47µF														p146	p146	
68µF															p146	

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### NFM Series

**p00** ← Part Number List

L×W (mm)	1.0×0.5						1.6×0.8				2.0×1.25						3.2×1.25	3.2×1.6			4.5×1.6			
T max. (mm)	0.35		0.5			0.65	0.7	0.7		0.9		0.95						0.9	1.5		1.2			
Rated Voltage (Vdc)	6.3	4	16	10	6.3	2.5	2.5	16	6.3	10	6.3	50	25	16	10	6.3	50	100	50	6.3	100	50	25	
Cap. / TC Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100pF								p151																
220pF								p151				p151						p151						
470pF								p151				p151						p151					p151	
1000pF								p151				p151						p151					p151	
2200pF			p151 p151					p151				p151						p151					p151	
10000pF																				p151 p151				
15000pF																				p151 p151				
22000pF			p151 p151					p151				p151						p151 p151 p151					p151	
47000pF			p151 p151																					
0.10μF			p151 p151					p151												p151 p151				
0.20μF																								
0.22μF			p151 p151									p151						p151						
0.47μF	p151	p151										p151						p151						
1.0μF		p151										p151		p151				p151 p151						
1.5μF																								p151 p151
2.2μF																								
4.3μF							p151																	
4.7μF																								
7.5μF								p151																
9.1μF									p151															
10μF																								
27μF																								p151

## Capacitance Table

**p00** Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GCH Series Temperature Compensating Type

**p00** ← Part Number List    EIA: **COG**

L×W (mm)	1.0×0.5	1.6×0.8	2.0×1.25			3.2×1.6				
T max. (mm)	0.55	0.9	0.7		0.95	1.4	0.95		1.25	
Rated Voltage (Vdc)	50	100	50	100	50	50	50	100	50	50
Cap. / TC Code	COG	COG	COG	COG	COG	COG	COG	COG	COG	COG
1.0pF	p153	p153	p153							
2.0pF	p153	p153	p153							
3.0pF	p153	p153	p153							
4.0pF	p153	p153	p153							
5.0pF	p153	p153	p153							
6.0pF	p153	p153	p153							
7.0pF	p153	p153	p153							
8.0pF	p153	p153	p153							
9.0pF	p153	p153	p153							
10pF	p153	p153	p153							
15pF	p153	p153	p153							
22pF	p153	p153	p153							
33pF	p153	p153	p153							
47pF	p153	p153	p153							
68pF	p153	p153	p153							
100pF	p153	p153	p153	p153						
150pF	p153	p153	p153	p153						
220pF	p153	p153	p153	p153						
330pF	p153	p153	p153	p153						
470pF	p153	p153	p153	p153						
680pF		p153	p153	p153						
1000pF	p153	p153	p153	p153	p153					
1500pF		p153	p153	p153	p153					
2200pF			p153	p153	p153	p153				
3300pF			p153	p153	p153	p153				
4700pF				p153		p153	p154			
6800pF					p153	p154	p154			
10000pF					p153	p154	p154			
15000pF					p153		p154			
22000pF						p153	p154			
33000pF							p154			
47000pF								p154		
										p154

## Capacitance Table

p00 Each number in the Part Number List refers to the page number printed at the bottom of the page.

### GCH Series High Dielectric Constant Type

p00 ← Part Number List EIA: X7R X7S

L×W (mm)	1.0×0.5						1.6×0.8						2.0×1.25									
T max. (mm)	0.55			0.7			0.9			0.95			1.4									
Rated Voltage (Vdc)	100	50	25	16	10	10	100	50	25	16	10	6.3	25	16	100	50	35	25	16	10	6.3	
Cap. / TC Code	X7R	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7S	X7R	
220pF	p155	p155																				
470pF	p155	p155																				
1000pF	p155	p155						p155	p155													
2200pF	p155	p155						p155	p155													
4700pF	p155	p155						p155	p155													
10000pF		p155	p155					p155	p155									p155				
22000pF		p155	p155					p155	p155									p155				
47000pF		p155	p155	p155					p155	p155								p155	p155			
0.10μF		p155		p155	p155			p155	p155	p155	p155							p155	p155			
0.22μF				p155					p155	p155									p155		p155	
0.47μF										p155	p155							p155				
1.0μF						p155				p155	p155						p155		p155	p155		
2.2μF												p155	p155							p155	p155	p155
4.7μF																				p155		p155
10μF																						p155
22μF																						
47μF																						

Continued to the following table. ✓

L×W (mm)	2.0×1.25						3.2×1.6						3.2×2.5									
T max. (mm)	1.45			0.95	1.25		1.3	1.8			2.2			2.7								
Rated Voltage (Vdc)	100	35	25	100	100	50	25	100	50	25	16	10	100	25	16	50	10	6.3				
Cap. / TC Code	X7S	X7S	X7S	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R	X7R			
220pF																						
470pF																						
1000pF																						
2200pF																						
4700pF																						
10000pF																						
22000pF																						
47000pF																						
0.10μF				p155																		
0.22μF					p155																	
0.47μF						p155																
1.0μF	p155						p155		p155									p155				
2.2μF							p155		p155								p155					
4.7μF		p155	p155										p155	p155				p155		p155		
10μF													p155	p155				p155				
22μF																				p155		
47μF																					p155	

# Search Capacitors

Specifications and Test Methods, Package, Chart of Characteristic Data,

please refer to the search web page.

<http://www.murata.com/en-global/products/capacitor>

T <sub>max</sub>	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	COG	0.20pF	±0.05pF	GRM0225C1HR20WA03#
			0.30pF	±0.1pF	GRM0225C1HR20BA03#
			0.40pF	±0.05pF	GRM0225C1HR30WA03#
			0.50pF	±0.05pF	GRM0225C1HR30BA03#
			0.60pF	±0.05pF	GRM0225C1HR60WA03#

Links are provided to the product detail pages on the web, and are shown below in the product number table from the PDF version of the catalog which is available on the web.

The screenshot shows a detailed product page for GRM0224C1HR20WA03#.

- Status and Features Icons:** A section showing icons for various features like RoHS, REACH, and others.
- Characteristics & Applications:** A section linking to series introductions.
- Detailed Specifications Sheet:** A section listing technical details such as Rated value, Specifications and Test Methods, Package, Caution, Notice, and Storage, Soldering and Mounting.
- Characteristics Data:** A section displaying graphs for various characteristics including ESR vs Frequency, Impedance vs Frequency, AC voltage characteristics, Capacitance - temperature characteristics, and Calorific property by ripple current.
- Chart of Characteristic Data:** A section showing a graph of Product Number vs Graph Type.

## Data Sheet

The product details page can be output in PDF.

## Status and Features Icons

The status and features of products can be checked at once. When ⓘ is clicked, a description of each icon will be displayed.

## Characteristics & Applications

This links to the introduction page of each series.

## Detailed Specifications Sheet

- Rated value
- Specifications and Test Methods
- Package
- Caution, Notice  
(Storage, Soldering and Mounting, ....etc.)

## Characteristics Data

The following characteristics data of the main products can be acquired.

- SPICE Netlist (mod type)
- S parameter (S2P type)
- Reliability Test Data \*Typical data

- Shape (Dimensions)
- Rated Values

- Specification by Packaging Code/  
Minimum Order Quantity
- Weight (1 pc/ø180mm reel)

## Chart of Characteristic Data

The main products published characteristic data.

- Frequency characteristics (ESR, Impedance)
- DC bias characteristics
- AC voltage characteristics
- Capacitance - temperature characteristics
- Calorific property by ripple current

## Design Tools SimSurfing

The SimSurfing design tools are useful for displaying the graph, downloading CSV data and overwriting the product number graph.

## General Purpose Monolithic Ceramic Capacitors

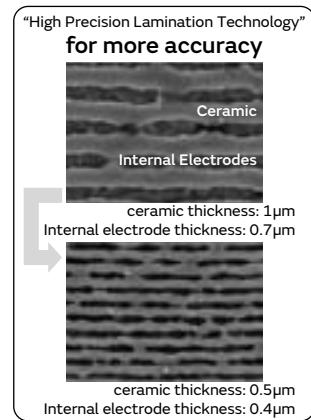
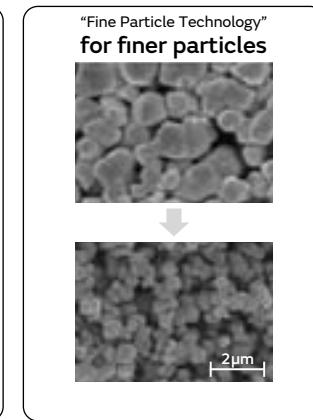
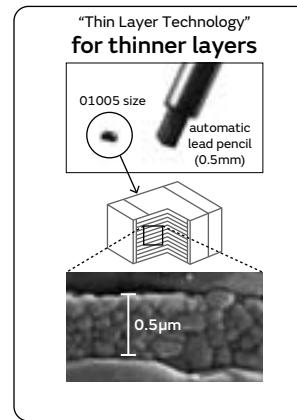
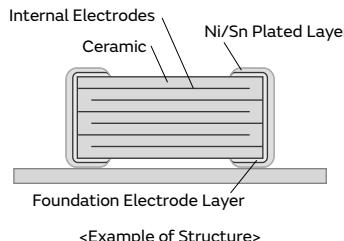
### GRM Series



This is Murata primary products renowned for both small size and large capacitance value with latest advanced technology.

#### Features

##### 1 Achieves large-capacity and small size in a multilayer structure.



##### 2 Sn plating is applied to the external electrodes; excellent solderability.

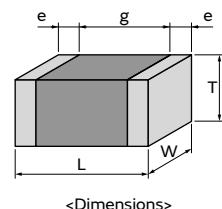
##### 3 High reliability with no polarity.

	Ceramic Capacitors	Tantalum Capacitor	Aluminum Electrolytic Capacitor	Conductive Polymer Capacitor
Price	○	○	◎	○
Comparison between Impedance Frequency Characteristics	◎	△	△	○
Capacitance temperature characteristics	○	◎	○	○
DC breakdown voltage	◎	△	△	△
Polarity	No	Yes	Yes	Yes
Pulse response	◎	△	△	○
Allowable ripple current	◎	△	△	△
Reliability	◎	○	○	○
DC bias characteristics	△	◎	◎	◎

◎: Particularly excellent ○: Excellent △: Inferior

#### Specifications

Size (mm)	0.25×0.125mm to 5.7×5.0mm
Rated Voltage	2.5Vdc to 3150Vdc
Capacitance	0.10pF to 330μF
Main Applications	1. Rated voltage 100V Max. High Dielectric Constant Type . . . For decoupling and smoothing circuits Temperature Compensating Type . . . For tuning circuits, oscillating circuits, and high frequency filter circuits 2. Rated voltage 200V min. High Dielectric Constant Type . . . For clamp snubber circuits and smoothing circuits Temperature Compensating Type . . . Power supply damper snubber



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## GRM Series Temperature Compensating Type Part Number List

0.4×0.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	C0G	0.20pF	±0.05pF	GRM0225C1HR20WA03#	0.22mm	50Vdc	COG	2.2pF	±0.05pF	GRM0225C1H2R2WA03#
				±0.1pF	GRM0225C1HR20BA03#				±0.1pF	GRM0225C1H2R2BA03#	
			0.30pF	±0.05pF	GRM0225C1HR30WA03#				±0.25pF	GRM0225C1H2R2CA03#	
				±0.1pF	GRM0225C1HR30BA03#				2.3pF	±0.05pF	GRM0225C1H2R3WA03#
			0.40pF	±0.05pF	GRM0225C1HR40WA03#				±0.1pF	GRM0225C1H2R3BA03#	
				±0.1pF	GRM0225C1HR40BA03#				±0.25pF	GRM0225C1H2R3CA03#	
			0.50pF	±0.05pF	GRM0225C1HR50WA03#				2.4pF	±0.05pF	GRM0225C1H2R4WA03#
				±0.1pF	GRM0225C1HR50BA03#				±0.1pF	GRM0225C1H2R4BA03#	
			0.60pF	±0.05pF	GRM0225C1HR60WA03#				±0.25pF	GRM0225C1H2R4CA03#	
				±0.1pF	GRM0225C1HR60BA03#				2.5pF	±0.05pF	GRM0225C1H2R5WA03#
			0.70pF	±0.05pF	GRM0225C1HR70WA03#				±0.1pF	GRM0225C1H2R5BA03#	
				±0.1pF	GRM0225C1HR70BA03#				±0.25pF	GRM0225C1H2R5CA03#	
			0.80pF	±0.05pF	GRM0225C1HR80WA03#				2.6pF	±0.05pF	GRM0225C1H2R6WA03#
				±0.1pF	GRM0225C1HR80BA03#				±0.1pF	GRM0225C1H2R6BA03#	
			0.90pF	±0.05pF	GRM0225C1HR90WA03#				±0.25pF	GRM0225C1H2R6CA03#	
				±0.1pF	GRM0225C1HR90BA03#				2.7pF	±0.05pF	GRM0225C1H2R7WA03#
			1.0pF	±0.05pF	GRM0225C1H1R0WA03#				±0.1pF	GRM0225C1H2R7BA03#	
				±0.1pF	GRM0225C1H1R0BA03#				±0.25pF	GRM0225C1H2R7CA03#	
			1.1pF	±0.05pF	GRM0225C1H1R1WA03#				2.8pF	±0.05pF	GRM0225C1H2R8WA03#
				±0.1pF	GRM0225C1H1R1BA03#				±0.1pF	GRM0225C1H2R8BA03#	
				±0.25pF	GRM0225C1H1R1CA03#				±0.25pF	GRM0225C1H2R8CA03#	
			1.2pF	±0.05pF	GRM0225C1H1R2WA03#				2.9pF	±0.05pF	GRM0225C1H2R9WA03#
				±0.1pF	GRM0225C1H1R2BA03#				±0.1pF	GRM0225C1H2R9BA03#	
				±0.25pF	GRM0225C1H1R2CA03#				±0.25pF	GRM0225C1H2R9CA03#	
			1.3pF	±0.05pF	GRM0225C1H1R3WA03#				3.0pF	±0.05pF	GRM0225C1H3R0WA03#
				±0.1pF	GRM0225C1H1R3BA03#				±0.1pF	GRM0225C1H3R0BA03#	
				±0.25pF	GRM0225C1H1R3CA03#				±0.25pF	GRM0225C1H3R0CA03#	
			1.4pF	±0.05pF	GRM0225C1H1R4WA03#				3.1pF	±0.05pF	GRM0225C1H3R1WA03#
				±0.1pF	GRM0225C1H1R4BA03#				±0.1pF	GRM0225C1H3R1BA03#	
				±0.25pF	GRM0225C1H1R4CA03#				±0.25pF	GRM0225C1H3R1CA03#	
			1.5pF	±0.05pF	GRM0225C1H1R5WA03#				3.2pF	±0.05pF	GRM0225C1H3R2WA03#
				±0.1pF	GRM0225C1H1R5BA03#				±0.1pF	GRM0225C1H3R2BA03#	
				±0.25pF	GRM0225C1H1R5CA03#				±0.25pF	GRM0225C1H3R2CA03#	
			1.6pF	±0.05pF	GRM0225C1H1R6WA03#				3.3pF	±0.05pF	GRM0225C1H3R3WA03#
				±0.1pF	GRM0225C1H1R6BA03#				±0.1pF	GRM0225C1H3R3BA03#	
				±0.25pF	GRM0225C1H1R6CA03#				±0.25pF	GRM0225C1H3R3CA03#	
			1.7pF	±0.05pF	GRM0225C1H1R7WA03#				3.4pF	±0.05pF	GRM0225C1H3R4WA03#
				±0.1pF	GRM0225C1H1R7BA03#				±0.1pF	GRM0225C1H3R4BA03#	
				±0.25pF	GRM0225C1H1R7CA03#				±0.25pF	GRM0225C1H3R4CA03#	
			1.8pF	±0.05pF	GRM0225C1H1R8WA03#				3.5pF	±0.05pF	GRM0225C1H3R5WA03#
				±0.1pF	GRM0225C1H1R8BA03#				±0.1pF	GRM0225C1H3R5BA03#	
				±0.25pF	GRM0225C1H1R8CA03#				±0.25pF	GRM0225C1H3R5CA03#	
			1.9pF	±0.05pF	GRM0225C1H1R9WA03#				3.6pF	±0.05pF	GRM0225C1H3R6WA03#
				±0.1pF	GRM0225C1H1R9BA03#				±0.1pF	GRM0225C1H3R6BA03#	
				±0.25pF	GRM0225C1H1R9CA03#				±0.25pF	GRM0225C1H3R6CA03#	
			2.0pF	±0.05pF	GRM0225C1H2R0WA03#				3.7pF	±0.05pF	GRM0225C1H3R7WA03#
				±0.1pF	GRM0225C1H2R0BA03#				±0.1pF	GRM0225C1H3R7BA03#	
				±0.25pF	GRM0225C1H2R0CA03#				±0.25pF	GRM0225C1H3R7CA03#	
			2.1pF	±0.05pF	GRM0225C1H2R1WA03#				3.8pF	±0.05pF	GRM0225C1H3R8WA03#
				±0.1pF	GRM0225C1H2R1BA03#				±0.1pF	GRM0225C1H3R8BA03#	
				±0.25pF	GRM0225C1H2R1CA03#				±0.25pF	GRM0225C1H3R8CA03#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	COG	4.0pF	±0.05pF	GRM0225C1H4R0WA03#
				±0.1pF	GRM0225C1H4R0BA03#
				±0.25pF	GRM0225C1H4R0CA03#
			4.1pF	±0.05pF	GRM0225C1H4R1WA03#
				±0.1pF	GRM0225C1H4R1BA03#
				±0.25pF	GRM0225C1H4R1CA03#
			4.2pF	±0.05pF	GRM0225C1H4R2WA03#
				±0.1pF	GRM0225C1H4R2BA03#
				±0.25pF	GRM0225C1H4R2CA03#
			4.3pF	±0.05pF	GRM0225C1H4R3WA03#
				±0.1pF	GRM0225C1H4R3BA03#
				±0.25pF	GRM0225C1H4R3CA03#
			4.4pF	±0.05pF	GRM0225C1H4R4WA03#
				±0.1pF	GRM0225C1H4R4BA03#
				±0.25pF	GRM0225C1H4R4CA03#
			4.5pF	±0.05pF	GRM0225C1H4R5WA03#
				±0.1pF	GRM0225C1H4R5BA03#
				±0.25pF	GRM0225C1H4R5CA03#
			4.6pF	±0.05pF	GRM0225C1H4R6WA03#
				±0.1pF	GRM0225C1H4R6BA03#
				±0.25pF	GRM0225C1H4R6CA03#
			4.7pF	±0.05pF	GRM0225C1H4R7WA03#
				±0.1pF	GRM0225C1H4R7BA03#
				±0.25pF	GRM0225C1H4R7CA03#
			4.8pF	±0.05pF	GRM0225C1H4R8WA03#
				±0.1pF	GRM0225C1H4R8BA03#
				±0.25pF	GRM0225C1H4R8CA03#
			4.9pF	±0.05pF	GRM0225C1H4R9WA03#
				±0.1pF	GRM0225C1H4R9BA03#
				±0.25pF	GRM0225C1H4R9CA03#
			5.0pF	±0.05pF	GRM0225C1H5R0WA03#
				±0.1pF	GRM0225C1H5R0BA03#
				±0.25pF	GRM0225C1H5R0CA03#
			5.1pF	±0.05pF	GRM0225C1H5R1WA03#
				±0.1pF	GRM0225C1H5R1BA03#
				±0.25pF	GRM0225C1H5R1CA03#
				±0.5pF	GRM0225C1H5R1DA03#
			5.2pF	±0.05pF	GRM0225C1H5R2WA03#
				±0.1pF	GRM0225C1H5R2BA03#
				±0.25pF	GRM0225C1H5R2CA03#
				±0.5pF	GRM0225C1H5R2DA03#
			5.3pF	±0.05pF	GRM0225C1H5R3WA03#
				±0.1pF	GRM0225C1H5R3BA03#
				±0.25pF	GRM0225C1H5R3CA03#
				±0.5pF	GRM0225C1H5R3DA03#
			5.4pF	±0.05pF	GRM0225C1H5R4WA03#
				±0.1pF	GRM0225C1H5R4BA03#
				±0.25pF	GRM0225C1H5R4CA03#
				±0.5pF	GRM0225C1H5R4DA03#
			5.5pF	±0.05pF	GRM0225C1H5R5WA03#
				±0.1pF	GRM0225C1H5R5BA03#
				±0.25pF	GRM0225C1H5R5CA03#
				±0.5pF	GRM0225C1H5R5DA03#
			5.6pF	±0.05pF	GRM0225C1H5R6WA03#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	COG	5.6pF	±0.1pF	GRM0225C1H5R6BA03#
				±0.25pF	GRM0225C1H5R6CA03#
				±0.5pF	GRM0225C1H5R6DA03#
			5.7pF	±0.05pF	GRM0225C1H5R7WA03#
				±0.1pF	GRM0225C1H5R7BA03#
				±0.25pF	GRM0225C1H5R7CA03#
				±0.5pF	GRM0225C1H5R7DA03#
			5.8pF	±0.05pF	GRM0225C1H5R8WA03#
				±0.1pF	GRM0225C1H5R8BA03#
				±0.25pF	GRM0225C1H5R8CA03#
				±0.5pF	GRM0225C1H5R8DA03#
			5.9pF	±0.05pF	GRM0225C1H5R9WA03#
				±0.1pF	GRM0225C1H5R9BA03#
				±0.25pF	GRM0225C1H5R9CA03#
				±0.5pF	GRM0225C1H5R9DA03#
			6.0pF	±0.05pF	GRM0225C1H6R0WA03#
				±0.1pF	GRM0225C1H6R0BA03#
				±0.25pF	GRM0225C1H6R0CA03#
				±0.5pF	GRM0225C1H6R0DA03#
			6.1pF	±0.05pF	GRM0225C1H6R1WA03#
				±0.1pF	GRM0225C1H6R1BA03#
				±0.25pF	GRM0225C1H6R1CA03#
				±0.5pF	GRM0225C1H6R1DA03#
			6.2pF	±0.05pF	GRM0225C1H6R2WA03#
				±0.1pF	GRM0225C1H6R2BA03#
				±0.25pF	GRM0225C1H6R2CA03#
				±0.5pF	GRM0225C1H6R2DA03#
			6.3pF	±0.05pF	GRM0225C1H6R3WA03#
				±0.1pF	GRM0225C1H6R3BA03#
				±0.25pF	GRM0225C1H6R3CA03#
				±0.5pF	GRM0225C1H6R3DA03#
			6.4pF	±0.05pF	GRM0225C1H6R4WA03#
				±0.1pF	GRM0225C1H6R4BA03#
				±0.25pF	GRM0225C1H6R4CA03#
				±0.5pF	GRM0225C1H6R4DA03#
			6.5pF	±0.05pF	GRM0225C1H6R5WA03#
				±0.1pF	GRM0225C1H6R5BA03#
				±0.25pF	GRM0225C1H6R5CA03#
				±0.5pF	GRM0225C1H6R5DA03#
			6.6pF	±0.05pF	GRM0225C1H6R6WA03#
				±0.1pF	GRM0225C1H6R6BA03#
				±0.25pF	GRM0225C1H6R6CA03#
				±0.5pF	GRM0225C1H6R6DA03#
			6.7pF	±0.05pF	GRM0225C1H6R7WA03#
				±0.1pF	GRM0225C1H6R7BA03#
				±0.25pF	GRM0225C1H6R7CA03#
				±0.5pF	GRM0225C1H6R7DA03#
			6.8pF	±0.05pF	GRM0225C1H6R8WA03#
				±0.1pF	GRM0225C1H6R8BA03#
				±0.25pF	GRM0225C1H6R8CA03#
				±0.5pF	GRM0225C1H6R8DA03#
			6.9pF	±0.05pF	GRM0225C1H6R9WA03#
				±0.1pF	GRM0225C1H6R9BA03#
				±0.25pF	GRM0225C1H6R9CA03#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	COG	6.9pF	±0.5pF	GRM0225C1H6R9DA03#	0.22mm	50Vdc	COG	8.3pF	±0.1pF	GRM0225C1H8R3BA03#
			7.0pF	±0.05pF	GRM0225C1H7R0WA03#				8.3pF	±0.25pF	GRM0225C1H8R3CA03#
				±0.1pF	GRM0225C1H7R0BA03#				8.3pF	±0.5pF	GRM0225C1H8R3DA03#
				±0.25pF	GRM0225C1H7R0CA03#				8.4pF	±0.05pF	GRM0225C1H8R4WA03#
				±0.5pF	GRM0225C1H7R0DA03#				8.4pF	±0.1pF	GRM0225C1H8R4BA03#
			7.1pF	±0.05pF	GRM0225C1H7R1WA03#				8.4pF	±0.25pF	GRM0225C1H8R4CA03#
				±0.1pF	GRM0225C1H7R1BA03#				8.4pF	±0.5pF	GRM0225C1H8R4DA03#
				±0.25pF	GRM0225C1H7R1CA03#				8.5pF	±0.05pF	GRM0225C1H8R5WA03#
				±0.5pF	GRM0225C1H7R1DA03#				8.5pF	±0.1pF	GRM0225C1H8R5BA03#
			7.2pF	±0.05pF	GRM0225C1H7R2WA03#				8.5pF	±0.25pF	GRM0225C1H8R5CA03#
				±0.1pF	GRM0225C1H7R2BA03#				8.5pF	±0.5pF	GRM0225C1H8R5DA03#
				±0.25pF	GRM0225C1H7R2CA03#				8.6pF	±0.05pF	GRM0225C1H8R6WA03#
				±0.5pF	GRM0225C1H7R2DA03#				8.6pF	±0.1pF	GRM0225C1H8R6BA03#
			7.3pF	±0.05pF	GRM0225C1H7R3WA03#				8.6pF	±0.25pF	GRM0225C1H8R6CA03#
				±0.1pF	GRM0225C1H7R3BA03#				8.6pF	±0.5pF	GRM0225C1H8R6DA03#
				±0.25pF	GRM0225C1H7R3CA03#				8.7pF	±0.05pF	GRM0225C1H8R7WA03#
				±0.5pF	GRM0225C1H7R3DA03#				8.7pF	±0.1pF	GRM0225C1H8R7BA03#
			7.4pF	±0.05pF	GRM0225C1H7R4WA03#				8.7pF	±0.25pF	GRM0225C1H8R7CA03#
				±0.1pF	GRM0225C1H7R4BA03#				8.7pF	±0.5pF	GRM0225C1H8R7DA03#
				±0.25pF	GRM0225C1H7R4CA03#				8.8pF	±0.05pF	GRM0225C1H8R8WA03#
				±0.5pF	GRM0225C1H7R4DA03#				8.8pF	±0.1pF	GRM0225C1H8R8BA03#
			7.5pF	±0.05pF	GRM0225C1H7R5WA03#				8.8pF	±0.25pF	GRM0225C1H8R8CA03#
				±0.1pF	GRM0225C1H7R5BA03#				8.8pF	±0.5pF	GRM0225C1H8R8DA03#
				±0.25pF	GRM0225C1H7R5CA03#				8.9pF	±0.05pF	GRM0225C1H8R9WA03#
				±0.5pF	GRM0225C1H7R5DA03#				8.9pF	±0.1pF	GRM0225C1H8R9BA03#
			7.6pF	±0.05pF	GRM0225C1H7R6WA03#				8.9pF	±0.25pF	GRM0225C1H8R9CA03#
				±0.1pF	GRM0225C1H7R6BA03#				8.9pF	±0.5pF	GRM0225C1H8R9DA03#
				±0.25pF	GRM0225C1H7R6CA03#				9.0pF	±0.05pF	GRM0225C1H9R0WA03#
				±0.5pF	GRM0225C1H7R6DA03#				9.0pF	±0.1pF	GRM0225C1H9R0BA03#
			7.7pF	±0.05pF	GRM0225C1H7R7WA03#				9.0pF	±0.25pF	GRM0225C1H9R0CA03#
				±0.1pF	GRM0225C1H7R7BA03#				9.0pF	±0.5pF	GRM0225C1H9R0DA03#
				±0.25pF	GRM0225C1H7R7CA03#				9.1pF	±0.05pF	GRM0225C1H9R1WA03#
				±0.5pF	GRM0225C1H7R7DA03#				9.1pF	±0.1pF	GRM0225C1H9R1BA03#
			7.8pF	±0.05pF	GRM0225C1H7R8WA03#				9.1pF	±0.25pF	GRM0225C1H9R1CA03#
				±0.1pF	GRM0225C1H7R8BA03#				9.1pF	±0.5pF	GRM0225C1H9R1DA03#
				±0.25pF	GRM0225C1H7R8CA03#				9.2pF	±0.05pF	GRM0225C1H9R2WA03#
				±0.5pF	GRM0225C1H7R8DA03#				9.2pF	±0.1pF	GRM0225C1H9R2BA03#
			7.9pF	±0.05pF	GRM0225C1H7R9WA03#				9.2pF	±0.25pF	GRM0225C1H9R2CA03#
				±0.1pF	GRM0225C1H7R9BA03#				9.2pF	±0.5pF	GRM0225C1H9R2DA03#
				±0.25pF	GRM0225C1H7R9CA03#				9.3pF	±0.05pF	GRM0225C1H9R3WA03#
				±0.5pF	GRM0225C1H7R9DA03#				9.3pF	±0.1pF	GRM0225C1H9R3BA03#
			8.0pF	±0.05pF	GRM0225C1H8R0WA03#				9.3pF	±0.25pF	GRM0225C1H9R3CA03#
				±0.1pF	GRM0225C1H8R0BA03#				9.3pF	±0.5pF	GRM0225C1H9R3DA03#
				±0.25pF	GRM0225C1H8R0CA03#				9.4pF	±0.05pF	GRM0225C1H9R4WA03#
				±0.5pF	GRM0225C1H8R0DA03#				9.4pF	±0.1pF	GRM0225C1H9R4BA03#
			8.1pF	±0.05pF	GRM0225C1H8R1WA03#				9.4pF	±0.25pF	GRM0225C1H9R4CA03#
				±0.1pF	GRM0225C1H8R1BA03#				9.4pF	±0.5pF	GRM0225C1H9R4DA03#
				±0.25pF	GRM0225C1H8R1CA03#				9.5pF	±0.05pF	GRM0225C1H9R5WA03#
				±0.5pF	GRM0225C1H8R1DA03#				9.5pF	±0.1pF	GRM0225C1H9R5BA03#
			8.2pF	±0.05pF	GRM0225C1H8R2WA03#				9.5pF	±0.25pF	GRM0225C1H9R5CA03#
				±0.1pF	GRM0225C1H8R2BA03#				9.5pF	±0.5pF	GRM0225C1H9R5DA03#
				±0.25pF	GRM0225C1H8R2CA03#				9.6pF	±0.05pF	GRM0225C1H9R6WA03#
				±0.5pF	GRM0225C1H8R2DA03#				9.6pF	±0.1pF	GRM0225C1H9R6BA03#
			8.3pF	±0.05pF	GRM0225C1H8R3WA03#				9.6pF	±0.25pF	GRM0225C1H9R6CA03#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	COG	9.6pF	±0.5pF	GRM0225C1H9R6DA03#
			9.7pF	±0.05pF	GRM0225C1H9R7WA03#
				±0.1pF	GRM0225C1H9R7BA03#
				±0.25pF	GRM0225C1H9R7CA03#
				±0.5pF	GRM0225C1H9R7DA03#
			9.8pF	±0.05pF	GRM0225C1H9R8WA03#
				±0.1pF	GRM0225C1H9R8BA03#
				±0.25pF	GRM0225C1H9R8CA03#
				±0.5pF	GRM0225C1H9R8DA03#
			9.9pF	±0.05pF	GRM0225C1H9R9WA03#
				±0.1pF	GRM0225C1H9R9BA03#
				±0.25pF	GRM0225C1H9R9CA03#
				±0.5pF	GRM0225C1H9R9DA03#
			10pF	±2%	GRM0225C1H100GA03#
				±5%	GRM0225C1H100JA03#
			11pF	±2%	GRM0225C1H110GA03#
				±5%	GRM0225C1H110JA03#
			12pF	±2%	GRM0225C1H120GA03#
				±5%	GRM0225C1H120JA03#
			13pF	±2%	GRM0225C1H130GA03#
				±5%	GRM0225C1H130JA03#
			15pF	±2%	GRM0225C1H150GA03#
				±5%	GRM0225C1H150JA03#
			16pF	±2%	GRM0225C1H160GA03#
				±5%	GRM0225C1H160JA03#
			17pF	±5%	GRM0225C1H170JA02#
			18pF	±5%	GRM0225C1H180JA02#
			19pF	±5%	GRM0225C1H190JA02#
			20pF	±5%	GRM0225C1H200JA02#
			21pF	±5%	GRM0225C1H210JA02#
			22pF	±5%	GRM0225C1H220JA02#
			23pF	±5%	GRM0225C1H230JA02#
			24pF	±5%	GRM0225C1H240JA02#
			27pF	±5%	GRM0225C1H270JA02#
			30pF	±5%	GRM0225C1H300JA02#
			33pF	±5%	GRM0225C1H330JA02#
			36pF	±5%	GRM0225C1H360JA02#
			39pF	±5%	GRM0225C1H390JA02#
			43pF	±5%	GRM0225C1H430JA02#
			47pF	±5%	GRM0225C1H470JA02#
			51pF	±5%	GRM0225C1H510JA02#
			56pF	±5%	GRM0225C1H560JA02#
			62pF	±5%	GRM0225C1H620JA02#
			68pF	±5%	GRM0225C1H680JA02#
			75pF	±5%	GRM0225C1H750JA02#
			82pF	±5%	GRM0225C1H820JA02#
			91pF	±5%	GRM0225C1H910JA02#
			100pF	±5%	GRM0225C1H101JA02#
CK		CK	0.20pF	±0.05pF	GRM0224C1HR20WA03#
				±0.1pF	GRM0224C1HR20BA03#
			0.30pF	±0.05pF	GRM0224C1HR30WA03#
				±0.1pF	GRM0224C1HR30BA03#
			0.40pF	±0.05pF	GRM0224C1HR40WA03#
				±0.1pF	GRM0224C1HR40BA03#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	CK	0.50pF	±0.05pF	GRM0224C1HR50WA03#
				±0.1pF	GRM0224C1HR50BA03#
			0.51pF	±0.05pF	GRM0224C1HR51WA03#
			0.60pF	±0.05pF	GRM0224C1HR60WA03#
				±0.1pF	GRM0224C1HR60BA03#
			0.70pF	±0.05pF	GRM0224C1HR70WA03#
				±0.1pF	GRM0224C1HR70BA03#
			0.80pF	±0.05pF	GRM0224C1HR80WA03#
				±0.1pF	GRM0224C1HR80BA03#
			0.90pF	±0.05pF	GRM0224C1HR90WA03#
				±0.1pF	GRM0224C1HR90BA03#
			1.0pF	±0.05pF	GRM0224C1H1R0WA03#
				±0.1pF	GRM0224C1H1R0BA03#
				±0.25pF	GRM0224C1H1R0CA03#
			1.1pF	±0.05pF	GRM0224C1H1R1WA03#
				±0.1pF	GRM0224C1H1R1BA03#
				±0.25pF	GRM0224C1H1R1CA03#
			1.2pF	±0.05pF	GRM0224C1H1R2WA03#
				±0.1pF	GRM0224C1H1R2BA03#
				±0.25pF	GRM0224C1H1R2CA03#
			1.3pF	±0.05pF	GRM0224C1H1R3WA03#
				±0.1pF	GRM0224C1H1R3BA03#
				±0.25pF	GRM0224C1H1R3CA03#
			1.4pF	±0.05pF	GRM0224C1H1R4WA03#
				±0.1pF	GRM0224C1H1R4BA03#
				±0.25pF	GRM0224C1H1R4CA03#
			1.5pF	±0.05pF	GRM0224C1H1R5WA03#
				±0.1pF	GRM0224C1H1R5BA03#
				±0.25pF	GRM0224C1H1R5CA03#
			1.6pF	±0.05pF	GRM0224C1H1R6WA03#
				±0.1pF	GRM0224C1H1R6BA03#
				±0.25pF	GRM0224C1H1R6CA03#
			1.7pF	±0.05pF	GRM0224C1H1R7WA03#
				±0.1pF	GRM0224C1H1R7BA03#
				±0.25pF	GRM0224C1H1R7CA03#
			1.8pF	±0.05pF	GRM0224C1H1R8WA03#
				±0.1pF	GRM0224C1H1R8BA03#
				±0.25pF	GRM0224C1H1R8CA03#
			1.9pF	±0.05pF	GRM0224C1H1R9WA03#
				±0.1pF	GRM0224C1H1R9BA03#
				±0.25pF	GRM0224C1H1R9CA03#
			2.0pF	±0.05pF	GRM0224C1H2R0WA03#
				±0.1pF	GRM0224C1H2R0BA03#
				±0.25pF	GRM0224C1H2R0CA03#
		CJ	2.1pF	±0.05pF	GRM0223C1H2R1WA03#
				±0.1pF	GRM0223C1H2R1BA03#
				±0.25pF	GRM0223C1H2R1CA03#
			2.2pF	±0.05pF	GRM0223C1H2R2WA03#
				±0.1pF	GRM0223C1H2R2BA03#
				±0.25pF	GRM0223C1H2R2CA03#
			2.3pF	±0.05pF	GRM0223C1H2R3WA03#
				±0.1pF	GRM0223C1H2R3BA03#
				±0.25pF	GRM0223C1H2R3CA03#
			2.4pF	±0.05pF	GRM0223C1H2R4WA03#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	CJ	2.4pF	±0.1pF	GRM0223C1H2R4BA03#	0.22mm	50Vdc	CH	4.2pF	±0.1pF	GRM0222C1H4R2BA03#
				±0.25pF	GRM0223C1H2R4CA03#					±0.25pF	GRM0222C1H4R2CA03#
				±0.05pF	GRM0223C1H2R5WA03#				4.3pF	±0.05pF	GRM0222C1H4R3WA03#
				±0.1pF	GRM0223C1H2R5BA03#					±0.1pF	GRM0222C1H4R3BA03#
				±0.25pF	GRM0223C1H2R5CA03#					±0.25pF	GRM0222C1H4R3CA03#
			2.6pF	±0.05pF	GRM0223C1H2R6WA03#				4.4pF	±0.05pF	GRM0222C1H4R4WA03#
				±0.1pF	GRM0223C1H2R6BA03#					±0.1pF	GRM0222C1H4R4BA03#
				±0.25pF	GRM0223C1H2R6CA03#					±0.25pF	GRM0222C1H4R4CA03#
			2.7pF	±0.05pF	GRM0223C1H2R7WA03#				4.5pF	±0.05pF	GRM0222C1H4R5WA03#
				±0.1pF	GRM0223C1H2R7BA03#					±0.1pF	GRM0222C1H4R5BA03#
				±0.25pF	GRM0223C1H2R7CA03#					±0.25pF	GRM0222C1H4R5CA03#
			2.8pF	±0.05pF	GRM0223C1H2R8WA03#				4.6pF	±0.05pF	GRM0222C1H4R6WA03#
				±0.1pF	GRM0223C1H2R8BA03#					±0.1pF	GRM0222C1H4R6BA03#
				±0.25pF	GRM0223C1H2R8CA03#					±0.25pF	GRM0222C1H4R6CA03#
			2.9pF	±0.05pF	GRM0223C1H2R9WA03#				4.7pF	±0.05pF	GRM0222C1H4R7WA03#
				±0.1pF	GRM0223C1H2R9BA03#					±0.1pF	GRM0222C1H4R7BA03#
				±0.25pF	GRM0223C1H2R9CA03#					±0.25pF	GRM0222C1H4R7CA03#
			3.0pF	±0.05pF	GRM0223C1H3R0WA03#				4.8pF	±0.05pF	GRM0222C1H4R8WA03#
				±0.1pF	GRM0223C1H3R0BA03#					±0.1pF	GRM0222C1H4R8BA03#
				±0.25pF	GRM0223C1H3R0CA03#					±0.25pF	GRM0222C1H4R8CA03#
			3.1pF	±0.05pF	GRM0223C1H3R1WA03#				4.9pF	±0.05pF	GRM0222C1H4R9WA03#
				±0.1pF	GRM0223C1H3R1BA03#					±0.1pF	GRM0222C1H4R9BA03#
				±0.25pF	GRM0223C1H3R1CA03#					±0.25pF	GRM0222C1H4R9CA03#
			3.2pF	±0.05pF	GRM0223C1H3R2WA03#				5.0pF	±0.05pF	GRM0222C1H5R0WA03#
				±0.1pF	GRM0223C1H3R2BA03#					±0.1pF	GRM0222C1H5R0BA03#
				±0.25pF	GRM0223C1H3R2CA03#					±0.25pF	GRM0222C1H5R0CA03#
			3.3pF	±0.05pF	GRM0223C1H3R3WA03#				5.1pF	±0.05pF	GRM0222C1H5R1WA03#
				±0.1pF	GRM0223C1H3R3BA03#					±0.1pF	GRM0222C1H5R1BA03#
				±0.25pF	GRM0223C1H3R3CA03#					±0.25pF	GRM0222C1H5R1CA03#
			3.4pF	±0.05pF	GRM0223C1H3R4WA03#				5.2pF	±0.05pF	GRM0222C1H5R2WA03#
				±0.1pF	GRM0223C1H3R4BA03#					±0.1pF	GRM0222C1H5R2BA03#
				±0.25pF	GRM0223C1H3R4CA03#					±0.25pF	GRM0222C1H5R2CA03#
			3.5pF	±0.05pF	GRM0223C1H3R5WA03#				5.3pF	±0.05pF	GRM0222C1H5R3WA03#
				±0.1pF	GRM0223C1H3R5BA03#					±0.1pF	GRM0222C1H5R3BA03#
				±0.25pF	GRM0223C1H3R5CA03#					±0.25pF	GRM0222C1H5R3CA03#
			3.6pF	±0.05pF	GRM0223C1H3R6WA03#				5.4pF	±0.05pF	GRM0222C1H5R4WA03#
				±0.1pF	GRM0223C1H3R6BA03#					±0.1pF	GRM0222C1H5R4BA03#
				±0.25pF	GRM0223C1H3R6CA03#					±0.25pF	GRM0222C1H5R4CA03#
			3.7pF	±0.05pF	GRM0223C1H3R7WA03#				5.5pF	±0.05pF	GRM0222C1H5R5WA03#
				±0.1pF	GRM0223C1H3R7BA03#					±0.1pF	GRM0222C1H5R5BA03#
				±0.25pF	GRM0223C1H3R7CA03#					±0.25pF	GRM0222C1H5R5CA03#
			3.8pF	±0.05pF	GRM0223C1H3R8WA03#				5.6pF	±0.05pF	GRM0222C1H5R6WA03#
				±0.1pF	GRM0223C1H3R8BA03#					±0.1pF	GRM0222C1H5R6BA03#
				±0.25pF	GRM0223C1H3R8CA03#					±0.25pF	GRM0222C1H5R6CA03#
			3.9pF	±0.05pF	GRM0223C1H3R9WA03#				5.7pF	±0.05pF	GRM0222C1H5R7WA03#
				±0.1pF	GRM0223C1H3R9BA03#					±0.1pF	GRM0222C1H5R7BA03#
				±0.25pF	GRM0223C1H3R9CA03#					±0.25pF	GRM0222C1H5R7CA03#
		CH	4.0pF	±0.05pF	GRM0222C1H4R0WA03#				5.8pF	±0.05pF	GRM0222C1H5R7DA03#
				±0.1pF	GRM0222C1H4R0BA03#					±0.1pF	GRM0222C1H5R7DA03#
				±0.25pF	GRM0222C1H4R0CA03#					±0.25pF	GRM0222C1H5R7DA03#
			4.1pF	±0.05pF	GRM0222C1H4R1WA03#					±0.5pF	GRM0222C1H5R7DA03#
				±0.1pF	GRM0222C1H4R1BA03#					±0.5pF	GRM0222C1H5R7DA03#
				±0.25pF	GRM0222C1H4R1CA03#					±0.5pF	GRM0222C1H5R7DA03#
			4.2pF	±0.05pF	GRM0222C1H4R2WA03#					±0.5pF	GRM0222C1H5R7DA03#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	CH	5.8pF	±0.05pF	GRM0222C1H5R8WA03#
				±0.1pF	GRM0222C1H5R8BA03#
				±0.25pF	GRM0222C1H5R8CA03#
				±0.5pF	GRM0222C1H5R8DA03#
			5.9pF	±0.05pF	GRM0222C1H5R9WA03#
				±0.1pF	GRM0222C1H5R9BA03#
				±0.25pF	GRM0222C1H5R9CA03#
				±0.5pF	GRM0222C1H5R9DA03#
			6.0pF	±0.05pF	GRM0222C1H6R0WA03#
				±0.1pF	GRM0222C1H6R0BA03#
				±0.25pF	GRM0222C1H6R0CA03#
				±0.5pF	GRM0222C1H6R0DA03#
			6.1pF	±0.05pF	GRM0222C1H6R1WA03#
				±0.1pF	GRM0222C1H6R1BA03#
				±0.25pF	GRM0222C1H6R1CA03#
				±0.5pF	GRM0222C1H6R1DA03#
			6.2pF	±0.05pF	GRM0222C1H6R2WA03#
				±0.1pF	GRM0222C1H6R2BA03#
				±0.25pF	GRM0222C1H6R2CA03#
				±0.5pF	GRM0222C1H6R2DA03#
			6.3pF	±0.05pF	GRM0222C1H6R3WA03#
				±0.1pF	GRM0222C1H6R3BA03#
				±0.25pF	GRM0222C1H6R3CA03#
				±0.5pF	GRM0222C1H6R3DA03#
			6.4pF	±0.05pF	GRM0222C1H6R4WA03#
				±0.1pF	GRM0222C1H6R4BA03#
				±0.25pF	GRM0222C1H6R4CA03#
				±0.5pF	GRM0222C1H6R4DA03#
			6.5pF	±0.05pF	GRM0222C1H6R5WA03#
				±0.1pF	GRM0222C1H6R5BA03#
				±0.25pF	GRM0222C1H6R5CA03#
				±0.5pF	GRM0222C1H6R5DA03#
			6.6pF	±0.05pF	GRM0222C1H6R6WA03#
				±0.1pF	GRM0222C1H6R6BA03#
				±0.25pF	GRM0222C1H6R6CA03#
				±0.5pF	GRM0222C1H6R6DA03#
			6.7pF	±0.05pF	GRM0222C1H6R7WA03#
				±0.1pF	GRM0222C1H6R7BA03#
				±0.25pF	GRM0222C1H6R7CA03#
				±0.5pF	GRM0222C1H6R7DA03#
			6.8pF	±0.05pF	GRM0222C1H6R8WA03#
				±0.1pF	GRM0222C1H6R8BA03#
				±0.25pF	GRM0222C1H6R8CA03#
				±0.5pF	GRM0222C1H6R8DA03#
			6.9pF	±0.05pF	GRM0222C1H6R9WA03#
				±0.1pF	GRM0222C1H6R9BA03#
				±0.25pF	GRM0222C1H6R9CA03#
				±0.5pF	GRM0222C1H6R9DA03#
			7.0pF	±0.05pF	GRM0222C1H7R0WA03#
				±0.1pF	GRM0222C1H7R0BA03#
				±0.25pF	GRM0222C1H7R0CA03#
				±0.5pF	GRM0222C1H7R0DA03#
			7.1pF	±0.05pF	GRM0222C1H7R1WA03#
				±0.1pF	GRM0222C1H7R1BA03#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	CH	7.1pF	±0.25pF	GRM0222C1H7R1CA03#
				±0.5pF	GRM0222C1H7R1DA03#
			7.2pF	±0.05pF	GRM0222C1H7R2WA03#
				±0.1pF	GRM0222C1H7R2BA03#
				±0.25pF	GRM0222C1H7R2CA03#
				±0.5pF	GRM0222C1H7R2DA03#
			7.3pF	±0.05pF	GRM0222C1H7R3WA03#
				±0.1pF	GRM0222C1H7R3BA03#
				±0.25pF	GRM0222C1H7R3CA03#
				±0.5pF	GRM0222C1H7R3DA03#
			7.4pF	±0.05pF	GRM0222C1H7R4WA03#
				±0.1pF	GRM0222C1H7R4BA03#
				±0.25pF	GRM0222C1H7R4CA03#
				±0.5pF	GRM0222C1H7R4DA03#
			7.5pF	±0.05pF	GRM0222C1H7R5WA03#
				±0.1pF	GRM0222C1H7R5BA03#
				±0.25pF	GRM0222C1H7R5CA03#
				±0.5pF	GRM0222C1H7R5DA03#
			7.6pF	±0.05pF	GRM0222C1H7R6WA03#
				±0.1pF	GRM0222C1H7R6BA03#
				±0.25pF	GRM0222C1H7R6CA03#
				±0.5pF	GRM0222C1H7R6DA03#
			7.7pF	±0.05pF	GRM0222C1H7R7WA03#
				±0.1pF	GRM0222C1H7R7BA03#
				±0.25pF	GRM0222C1H7R7CA03#
				±0.5pF	GRM0222C1H7R7DA03#
			7.8pF	±0.05pF	GRM0222C1H7R8WA03#
				±0.1pF	GRM0222C1H7R8BA03#
				±0.25pF	GRM0222C1H7R8CA03#
				±0.5pF	GRM0222C1H7R8DA03#
			7.9pF	±0.05pF	GRM0222C1H7R9WA03#
				±0.1pF	GRM0222C1H7R9BA03#
				±0.25pF	GRM0222C1H7R9CA03#
				±0.5pF	GRM0222C1H7R9DA03#
			8.0pF	±0.05pF	GRM0222C1H8R0WA03#
				±0.1pF	GRM0222C1H8R0BA03#
				±0.25pF	GRM0222C1H8R0CA03#
				±0.5pF	GRM0222C1H8R0DA03#
			8.1pF	±0.05pF	GRM0222C1H8R1WA03#
				±0.1pF	GRM0222C1H8R1BA03#
				±0.25pF	GRM0222C1H8R1CA03#
				±0.5pF	GRM0222C1H8R1DA03#
			8.2pF	±0.05pF	GRM0222C1H8R2WA03#
				±0.1pF	GRM0222C1H8R2BA03#
				±0.25pF	GRM0222C1H8R2CA03#
				±0.5pF	GRM0222C1H8R2DA03#
			8.3pF	±0.05pF	GRM0222C1H8R3WA03#
				±0.1pF	GRM0222C1H8R3BA03#
				±0.25pF	GRM0222C1H8R3CA03#
				±0.5pF	GRM0222C1H8R3DA03#
			8.4pF	±0.05pF	GRM0222C1H8R4WA03#
				±0.1pF	GRM0222C1H8R4BA03#
				±0.25pF	GRM0222C1H8R4CA03#
				±0.5pF	GRM0222C1H8R4DA03#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	50Vdc	CH	8.5pF	±0.05pF	GRM0222C1H8R5WA03#	0.22mm	50Vdc	CH	9.8pF	±0.25pF	GRM0222C1H9R8CA03#
				±0.1pF	GRM0222C1H8R5BA03#				±0.5pF	GRM0222C1H9R8DA03#	
				±0.25pF	GRM0222C1H8R5CA03#				±0.1pF	GRM0222C1H9R9BA03#	
				±0.5pF	GRM0222C1H8R5DA03#				±0.25pF	GRM0222C1H9R9CA03#	
			8.6pF	±0.05pF	GRM0222C1H8R6WA03#				±0.5pF	GRM0222C1H9R9DA03#	
				±0.1pF	GRM0222C1H8R6BA03#				±0.25pF	GRM0222C1H100GA03#	
				±0.25pF	GRM0222C1H8R6CA03#				±0.5pF	GRM0222C1H100JA03#	
				±0.5pF	GRM0222C1H8R6DA03#				±2%	GRM0222C1H100GA03#	
			8.7pF	±0.05pF	GRM0222C1H8R7WA03#				±5%	GRM0222C1H100JA03#	
				±0.1pF	GRM0222C1H8R7BA03#				±2%	GRM0222C1H110GA03#	
				±0.25pF	GRM0222C1H8R7CA03#				±5%	GRM0222C1H110JA03#	
				±0.5pF	GRM0222C1H8R7DA03#				±2%	GRM0222C1H120GA03#	
			8.8pF	±0.05pF	GRM0222C1H8R8WA03#				±5%	GRM0222C1H120JA03#	
				±0.1pF	GRM0222C1H8R8BA03#				±2%	GRM0222C1H130GA03#	
				±0.25pF	GRM0222C1H8R8CA03#				±5%	GRM0222C1H130JA03#	
				±0.5pF	GRM0222C1H8R8DA03#				±2%	GRM0222C1H150GA03#	
			8.9pF	±0.05pF	GRM0222C1H8R9WA03#				±5%	GRM0222C1H150JA03#	
				±0.1pF	GRM0222C1H8R9BA03#				±2%	GRM0222C1H160GA03#	
				±0.25pF	GRM0222C1H8R9CA03#				±5%	GRM0222C1H160JA03#	
				±0.5pF	GRM0222C1H8R9DA03#				±2%	GRM0222C1H170JA02#	
			9.0pF	±0.05pF	GRM0222C1H9R0WA03#				±5%	GRM0222C1H180JA02#	
				±0.1pF	GRM0222C1H9R0BA03#				±2%	GRM0222C1H190JA02#	
				±0.25pF	GRM0222C1H9R0CA03#				±5%	GRM0222C1H190JA02#	
				±0.5pF	GRM0222C1H9R0DA03#				±2%	GRM0222C1H200JA02#	
			9.1pF	±0.05pF	GRM0222C1H9R1WA03#				±5%	GRM0222C1H210JA02#	
				±0.1pF	GRM0222C1H9R1BA03#				±2%	GRM0222C1H220JA02#	
				±0.25pF	GRM0222C1H9R1CA03#				±5%	GRM0222C1H230JA02#	
				±0.5pF	GRM0222C1H9R1DA03#				±2%	GRM0222C1H240JA02#	
			9.2pF	±0.05pF	GRM0222C1H9R2WA03#				±5%	GRM0222C1H270JA02#	
				±0.1pF	GRM0222C1H9R2BA03#				±2%	GRM0222C1H300JA02#	
				±0.25pF	GRM0222C1H9R2CA03#				±5%	GRM0222C1H330JA02#	
				±0.5pF	GRM0222C1H9R2DA03#				±2%	GRM0222C1H360JA02#	
			9.3pF	±0.05pF	GRM0222C1H9R3WA03#				±5%	GRM0222C1H390JA02#	
				±0.1pF	GRM0222C1H9R3BA03#				±2%	GRM0222C1H430JA02#	
				±0.25pF	GRM0222C1H9R3CA03#				±5%	GRM0222C1H470JA02#	
				±0.5pF	GRM0222C1H9R3DA03#				±2%	GRM0222C1H510JA02#	
			9.4pF	±0.05pF	GRM0222C1H9R4WA03#				±5%	GRM0222C1H560JA02#	
				±0.1pF	GRM0222C1H9R4BA03#				±2%	GRM0222C1H620JA02#	
				±0.25pF	GRM0222C1H9R4CA03#				±5%	GRM0222C1H680JA02#	
				±0.5pF	GRM0222C1H9R4DA03#				±2%	GRM0222C1H750JA02#	
			9.5pF	±0.05pF	GRM0222C1H9R5WA03#				±5%	GRM0222C1H820JA02#	
				±0.1pF	GRM0222C1H9R5BA03#				±2%	GRM0222C1H910JA02#	
				±0.25pF	GRM0222C1H9R5CA03#				±5%	GRM0222C1H101JA02#	
				±0.5pF	GRM0222C1H9R5DA03#				±2%	GRM0222C1H121JA02#	
			9.6pF	±0.05pF	GRM0222C1H9R6WA03#				±5%	GRM0222C1E121JA02#	
				±0.1pF	GRM0222C1H9R6BA03#				±2%	GRM0222C1E151JA02#	
				±0.25pF	GRM0222C1H9R6CA03#				±5%	GRM0222C1E181JA02#	
				±0.5pF	GRM0222C1H9R6DA03#				±2%	GRM0222C1E221JA02#	
			9.7pF	±0.05pF	GRM0222C1H9R7WA03#				±5%	GRM0222C1E221JA02#	
				±0.1pF	GRM0222C1H9R7BA03#				±2%	GRM0222C1E221JA02#	
				±0.25pF	GRM0222C1H9R7CA03#				±5%	GRM0222C1C121JA02#	
				±0.5pF	GRM0222C1H9R7DA03#				±2%	GRM0222C1C151JA02#	
			9.8pF	±0.05pF	GRM0222C1H9R8WA03#				±5%	GRM0222C1C181JA02#	
				±0.1pF	GRM0222C1H9R8BA03#				±2%	GRM0222C1C221JA02#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	16Vdc	CH	150pF	±5%	GRM0222C1C151JA02#
			180pF	±5%	GRM0222C1C181JA02#
			220pF	±5%	GRM0222C1C221JA02#

0.6×0.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	COG	0.10pF	±0.05pF	GRM0335C2AR10WA01#
			0.20pF	±0.05pF	GRM0335C2AR20WA01#
			±0.1pF	GRM0335C2AR20BA01#	
			0.30pF	±0.05pF	GRM0335C2AR30WA01#
			±0.1pF	GRM0335C2AR30BA01#	
			0.40pF	±0.05pF	GRM0335C2AR40WA01#
			±0.1pF	GRM0335C2AR40BA01#	
			0.50pF	±0.05pF	GRM0335C2AR50WA01#
			±0.1pF	GRM0335C2AR50BA01#	
			0.60pF	±0.05pF	GRM0335C2AR60WA01#
			±0.1pF	GRM0335C2AR60BA01#	
			0.70pF	±0.05pF	GRM0335C2AR70WA01#
			±0.1pF	GRM0335C2AR70BA01#	
			0.80pF	±0.05pF	GRM0335C2AR80WA01#
			±0.1pF	GRM0335C2AR80BA01#	
			0.90pF	±0.05pF	GRM0335C2AR90WA01#
			±0.1pF	GRM0335C2AR90BA01#	
			1.0pF	±0.05pF	GRM0335C2A1R0WA01#
			±0.1pF	GRM0335C2A1R0BA01#	
			±0.25pF	GRM0335C2A1R0CA01#	
			1.1pF	±0.05pF	GRM0335C2A1R1WA01#
			±0.1pF	GRM0335C2A1R1BA01#	
			±0.25pF	GRM0335C2A1R1CA01#	
			1.2pF	±0.05pF	GRM0335C2A1R2WA01#
			±0.1pF	GRM0335C2A1R2BA01#	
			±0.25pF	GRM0335C2A1R2CA01#	
			1.3pF	±0.05pF	GRM0335C2A1R3WA01#
			±0.1pF	GRM0335C2A1R3BA01#	
			±0.25pF	GRM0335C2A1R3CA01#	
			1.4pF	±0.05pF	GRM0335C2A1R4WA01#
			±0.1pF	GRM0335C2A1R4BA01#	
			±0.25pF	GRM0335C2A1R4CA01#	
			1.5pF	±0.05pF	GRM0335C2A1R5WA01#
			±0.1pF	GRM0335C2A1R5BA01#	
			±0.25pF	GRM0335C2A1R5CA01#	
			1.6pF	±0.05pF	GRM0335C2A1R6WA01#
			±0.1pF	GRM0335C2A1R6BA01#	
			±0.25pF	GRM0335C2A1R6CA01#	
			1.7pF	±0.05pF	GRM0335C2A1R7WA01#
			±0.1pF	GRM0335C2A1R7BA01#	
			±0.25pF	GRM0335C2A1R7CA01#	
			1.8pF	±0.05pF	GRM0335C2A1R8WA01#
			±0.1pF	GRM0335C2A1R8BA01#	
			±0.25pF	GRM0335C2A1R8CA01#	
			1.9pF	±0.05pF	GRM0335C2A1R9WA01#
			±0.1pF	GRM0335C2A1R9BA01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	COG	1.9pF	±0.25pF	GRM0335C2A1R9CA01#
			2.0pF	±0.05pF	GRM0335C2A2R0WA01#
			±0.1pF	GRM0335C2A2R0BA01#	
			±0.25pF	GRM0335C2A2R0CA01#	
			2.1pF	±0.05pF	GRM0335C2A2R1WA01#
			±0.1pF	GRM0335C2A2R1BA01#	
			±0.25pF	GRM0335C2A2R1CA01#	
			2.2pF	±0.05pF	GRM0335C2A2R2WA01#
			±0.1pF	GRM0335C2A2R2BA01#	
			±0.25pF	GRM0335C2A2R2CA01#	
			2.3pF	±0.05pF	GRM0335C2A2R3WA01#
			±0.1pF	GRM0335C2A2R3BA01#	
			±0.25pF	GRM0335C2A2R3CA01#	
			2.4pF	±0.05pF	GRM0335C2A2R4WA01#
			±0.1pF	GRM0335C2A2R4BA01#	
			±0.25pF	GRM0335C2A2R4CA01#	
			2.5pF	±0.05pF	GRM0335C2A2R5WA01#
			±0.1pF	GRM0335C2A2R5BA01#	
			±0.25pF	GRM0335C2A2R5CA01#	
			2.6pF	±0.05pF	GRM0335C2A2R6WA01#
			±0.1pF	GRM0335C2A2R6BA01#	
			±0.25pF	GRM0335C2A2R6CA01#	
			2.7pF	±0.05pF	GRM0335C2A2R7WA01#
			±0.1pF	GRM0335C2A2R7BA01#	
			±0.25pF	GRM0335C2A2R7CA01#	
			2.8pF	±0.05pF	GRM0335C2A2R8WA01#
			±0.1pF	GRM0335C2A2R8BA01#	
			±0.25pF	GRM0335C2A2R8CA01#	
			2.9pF	±0.05pF	GRM0335C2A2R9WA01#
			±0.1pF	GRM0335C2A2R9BA01#	
			±0.25pF	GRM0335C2A2R9CA01#	
			3.0pF	±0.05pF	GRM0335C2A3R0WA01#
			±0.1pF	GRM0335C2A3R0BA01#	
			±0.25pF	GRM0335C2A3R0CA01#	
			3.1pF	±0.05pF	GRM0335C2A3R1WA01#
			±0.1pF	GRM0335C2A3R1BA01#	
			±0.25pF	GRM0335C2A3R1CA01#	
			3.2pF	±0.05pF	GRM0335C2A3R2WA01#
			±0.1pF	GRM0335C2A3R2BA01#	
			±0.25pF	GRM0335C2A3R2CA01#	
			3.3pF	±0.05pF	GRM0335C2A3R3WA01#
			±0.1pF	GRM0335C2A3R3BA01#	
			±0.25pF	GRM0335C2A3R3CA01#	
			3.4pF	±0.05pF	GRM0335C2A3R4WA01#
			±0.1pF	GRM0335C2A3R4BA01#	
			±0.25pF	GRM0335C2A3R4CA01#	
			3.5pF	±0.05pF	GRM0335C2A3R5WA01#
			±0.1pF	GRM0335C2A3R5BA01#	
			±0.25pF	GRM0335C2A3R5CA01#	
			3.6pF	±0.05pF	GRM0335C2A3R6WA01#
			±0.1pF	GRM0335C2A3R6BA01#	
			±0.25pF	GRM0335C2A3R6CA01#	
			3.7pF	±0.05pF	GRM0335C2A3R7WA01#
			±0.1pF	GRM0335C2A3R7BA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	COG	3.7pF	±0.25pF	GRM0335C2A3R7CA01#	0.33mm	100Vdc	COG	5.4pF	±0.25pF	GRM0335C2A5R4CA01#
			3.8pF	±0.05pF	GRM0335C2A3R8WA01#				±0.5pF	GRM0335C2A5R4DA01#	
				±0.1pF	GRM0335C2A3R8BA01#				±0.05pF	GRM0335C2A5R5WA01#	
				±0.25pF	GRM0335C2A3R8CA01#				±0.1pF	GRM0335C2A5R5BA01#	
			3.9pF	±0.05pF	GRM0335C2A3R9WA01#				±0.25pF	GRM0335C2A5R5CA01#	
				±0.1pF	GRM0335C2A3R9BA01#				±0.5pF	GRM0335C2A5R5DA01#	
				±0.25pF	GRM0335C2A3R9CA01#				±0.05pF	GRM0335C2A5R6WA01#	
			4.0pF	±0.05pF	GRM0335C2A4R0WA01#				±0.1pF	GRM0335C2A5R6BA01#	
				±0.1pF	GRM0335C2A4R0BA01#				±0.25pF	GRM0335C2A5R6CA01#	
				±0.25pF	GRM0335C2A4R0CA01#				±0.5pF	GRM0335C2A5R6DA01#	
			4.1pF	±0.05pF	GRM0335C2A4R1WA01#				±0.05pF	GRM0335C2A5R7WA01#	
				±0.1pF	GRM0335C2A4R1BA01#				±0.1pF	GRM0335C2A5R7BA01#	
				±0.25pF	GRM0335C2A4R1CA01#				±0.25pF	GRM0335C2A5R7CA01#	
			4.2pF	±0.05pF	GRM0335C2A4R2WA01#				±0.5pF	GRM0335C2A5R7DA01#	
				±0.1pF	GRM0335C2A4R2BA01#				±0.05pF	GRM0335C2A5R8WA01#	
				±0.25pF	GRM0335C2A4R2CA01#				±0.1pF	GRM0335C2A5R8BA01#	
			4.3pF	±0.05pF	GRM0335C2A4R3WA01#				±0.25pF	GRM0335C2A5R8CA01#	
				±0.1pF	GRM0335C2A4R3BA01#				±0.5pF	GRM0335C2A5R8DA01#	
				±0.25pF	GRM0335C2A4R3CA01#				±0.05pF	GRM0335C2A5R9WA01#	
			4.4pF	±0.05pF	GRM0335C2A4R4WA01#				±0.1pF	GRM0335C2A5R9BA01#	
				±0.1pF	GRM0335C2A4R4BA01#				±0.25pF	GRM0335C2A5R9CA01#	
				±0.25pF	GRM0335C2A4R4CA01#				±0.5pF	GRM0335C2A5R9DA01#	
			4.5pF	±0.05pF	GRM0335C2A4R5WA01#				±0.05pF	GRM0335C2A6R0WA01#	
				±0.1pF	GRM0335C2A4R5BA01#				±0.1pF	GRM0335C2A6R0BA01#	
				±0.25pF	GRM0335C2A4R5CA01#				±0.25pF	GRM0335C2A6R0CA01#	
			4.6pF	±0.05pF	GRM0335C2A4R6WA01#				±0.5pF	GRM0335C2A6R0DA01#	
				±0.1pF	GRM0335C2A4R6BA01#				±0.05pF	GRM0335C2A6R1WA01#	
				±0.25pF	GRM0335C2A4R6CA01#				±0.1pF	GRM0335C2A6R1BA01#	
			4.7pF	±0.05pF	GRM0335C2A4R7WA01#				±0.25pF	GRM0335C2A6R1CA01#	
				±0.1pF	GRM0335C2A4R7BA01#				±0.5pF	GRM0335C2A6R1DA01#	
				±0.25pF	GRM0335C2A4R7CA01#				±0.05pF	GRM0335C2A6R2WA01#	
			4.8pF	±0.05pF	GRM0335C2A4R8WA01#				±0.1pF	GRM0335C2A6R2BA01#	
				±0.1pF	GRM0335C2A4R8BA01#				±0.25pF	GRM0335C2A6R2CA01#	
				±0.25pF	GRM0335C2A4R8CA01#				±0.5pF	GRM0335C2A6R2DA01#	
			4.9pF	±0.05pF	GRM0335C2A4R9WA01#				±0.05pF	GRM0335C2A6R3WA01#	
				±0.1pF	GRM0335C2A4R9BA01#				±0.1pF	GRM0335C2A6R3BA01#	
				±0.25pF	GRM0335C2A4R9CA01#				±0.25pF	GRM0335C2A6R3CA01#	
			5.0pF	±0.05pF	GRM0335C2A5R0WA01#				±0.5pF	GRM0335C2A6R3DA01#	
				±0.1pF	GRM0335C2A5R0BA01#				±0.05pF	GRM0335C2A6R4WA01#	
				±0.25pF	GRM0335C2A5R0CA01#				±0.1pF	GRM0335C2A6R4BA01#	
			5.1pF	±0.05pF	GRM0335C2A5R1WA01#				±0.25pF	GRM0335C2A6R4CA01#	
				±0.1pF	GRM0335C2A5R1BA01#				±0.5pF	GRM0335C2A6R4DA01#	
				±0.25pF	GRM0335C2A5R1CA01#				±0.05pF	GRM0335C2A6R5WA01#	
				±0.5pF	GRM0335C2A5R1DA01#				±0.1pF	GRM0335C2A6R5BA01#	
			5.2pF	±0.05pF	GRM0335C2A5R2WA01#				±0.25pF	GRM0335C2A6R5CA01#	
				±0.1pF	GRM0335C2A5R2BA01#				±0.5pF	GRM0335C2A6R5DA01#	
				±0.25pF	GRM0335C2A5R2CA01#				±0.05pF	GRM0335C2A6R6WA01#	
				±0.5pF	GRM0335C2A5R2DA01#				±0.1pF	GRM0335C2A6R6BA01#	
			5.3pF	±0.05pF	GRM0335C2A5R3WA01#				±0.25pF	GRM0335C2A6R6CA01#	
				±0.1pF	GRM0335C2A5R3BA01#				±0.5pF	GRM0335C2A6R6DA01#	
				±0.25pF	GRM0335C2A5R3CA01#				±0.05pF	GRM0335C2A6R7WA01#	
				±0.5pF	GRM0335C2A5R3DA01#				±0.1pF	GRM0335C2A6R7BA01#	
			5.4pF	±0.05pF	GRM0335C2A5R4WA01#				±0.25pF	GRM0335C2A6R7CA01#	
				±0.1pF	GRM0335C2A5R4BA01#				±0.5pF	GRM0335C2A6R7DA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	COG	6.8pF	±0.05pF	GRM0335C2A6R8WA01#
				±0.1pF	GRM0335C2A6R8BA01#
				±0.25pF	GRM0335C2A6R8CA01#
				±0.5pF	GRM0335C2A6R8DA01#
			6.9pF	±0.05pF	GRM0335C2A6R9WA01#
				±0.1pF	GRM0335C2A6R9BA01#
				±0.25pF	GRM0335C2A6R9CA01#
				±0.5pF	GRM0335C2A6R9DA01#
			7.0pF	±0.05pF	GRM0335C2A7R0WA01#
				±0.1pF	GRM0335C2A7R0BA01#
				±0.25pF	GRM0335C2A7R0CA01#
				±0.5pF	GRM0335C2A7R0DA01#
			7.1pF	±0.05pF	GRM0335C2A7R1WA01#
				±0.1pF	GRM0335C2A7R1BA01#
				±0.25pF	GRM0335C2A7R1CA01#
				±0.5pF	GRM0335C2A7R1DA01#
			7.2pF	±0.05pF	GRM0335C2A7R2WA01#
				±0.1pF	GRM0335C2A7R2BA01#
				±0.25pF	GRM0335C2A7R2CA01#
				±0.5pF	GRM0335C2A7R2DA01#
			7.3pF	±0.05pF	GRM0335C2A7R3WA01#
				±0.1pF	GRM0335C2A7R3BA01#
				±0.25pF	GRM0335C2A7R3CA01#
				±0.5pF	GRM0335C2A7R3DA01#
			7.4pF	±0.05pF	GRM0335C2A7R4WA01#
				±0.1pF	GRM0335C2A7R4BA01#
				±0.25pF	GRM0335C2A7R4CA01#
				±0.5pF	GRM0335C2A7R4DA01#
			7.5pF	±0.05pF	GRM0335C2A7R5WA01#
				±0.1pF	GRM0335C2A7R5BA01#
				±0.25pF	GRM0335C2A7R5CA01#
				±0.5pF	GRM0335C2A7R5DA01#
			7.6pF	±0.05pF	GRM0335C2A7R6WA01#
				±0.1pF	GRM0335C2A7R6BA01#
				±0.25pF	GRM0335C2A7R6CA01#
				±0.5pF	GRM0335C2A7R6DA01#
			7.7pF	±0.05pF	GRM0335C2A7R7WA01#
				±0.1pF	GRM0335C2A7R7BA01#
				±0.25pF	GRM0335C2A7R7CA01#
				±0.5pF	GRM0335C2A7R7DA01#
			7.8pF	±0.05pF	GRM0335C2A7R8WA01#
				±0.1pF	GRM0335C2A7R8BA01#
				±0.25pF	GRM0335C2A7R8CA01#
				±0.5pF	GRM0335C2A7R8DA01#
			7.9pF	±0.05pF	GRM0335C2A7R9WA01#
				±0.1pF	GRM0335C2A7R9BA01#
				±0.25pF	GRM0335C2A7R9CA01#
				±0.5pF	GRM0335C2A7R9DA01#
			8.0pF	±0.05pF	GRM0335C2A8R0WA01#
				±0.1pF	GRM0335C2A8R0BA01#
				±0.25pF	GRM0335C2A8R0CA01#
				±0.5pF	GRM0335C2A8R0DA01#
			8.1pF	±0.05pF	GRM0335C2A8R1WA01#
				±0.1pF	GRM0335C2A8R1BA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	COG	8.1pF	±0.25pF	GRM0335C2A8R1CA01#
				±0.5pF	GRM0335C2A8R1DA01#
			8.2pF	±0.05pF	GRM0335C2A8R2WA01#
				±0.1pF	GRM0335C2A8R2BA01#
				±0.25pF	GRM0335C2A8R2CA01#
				±0.5pF	GRM0335C2A8R2DA01#
			8.3pF	±0.05pF	GRM0335C2A8R3WA01#
				±0.1pF	GRM0335C2A8R3BA01#
				±0.25pF	GRM0335C2A8R3CA01#
				±0.5pF	GRM0335C2A8R3DA01#
			8.4pF	±0.05pF	GRM0335C2A8R4WA01#
				±0.1pF	GRM0335C2A8R4BA01#
				±0.25pF	GRM0335C2A8R4CA01#
				±0.5pF	GRM0335C2A8R4DA01#
			8.5pF	±0.05pF	GRM0335C2A8R5WA01#
				±0.1pF	GRM0335C2A8R5BA01#
				±0.25pF	GRM0335C2A8R5CA01#
				±0.5pF	GRM0335C2A8R5DA01#
			8.6pF	±0.05pF	GRM0335C2A8R6WA01#
				±0.1pF	GRM0335C2A8R6BA01#
				±0.25pF	GRM0335C2A8R6CA01#
				±0.5pF	GRM0335C2A8R6DA01#
			8.7pF	±0.05pF	GRM0335C2A8R7WA01#
				±0.1pF	GRM0335C2A8R7BA01#
				±0.25pF	GRM0335C2A8R7CA01#
				±0.5pF	GRM0335C2A8R7DA01#
			8.8pF	±0.05pF	GRM0335C2A8R8WA01#
				±0.1pF	GRM0335C2A8R8BA01#
				±0.25pF	GRM0335C2A8R8CA01#
				±0.5pF	GRM0335C2A8R8DA01#
			8.9pF	±0.05pF	GRM0335C2A8R9WA01#
				±0.1pF	GRM0335C2A8R9BA01#
				±0.25pF	GRM0335C2A8R9CA01#
				±0.5pF	GRM0335C2A8R9DA01#
			9.0pF	±0.05pF	GRM0335C2A9R0WA01#
				±0.1pF	GRM0335C2A9R0BA01#
				±0.25pF	GRM0335C2A9R0CA01#
				±0.5pF	GRM0335C2A9R0DA01#
			9.1pF	±0.05pF	GRM0335C2A9R1WA01#
				±0.1pF	GRM0335C2A9R1BA01#
				±0.25pF	GRM0335C2A9R1CA01#
				±0.5pF	GRM0335C2A9R1DA01#
			9.2pF	±0.05pF	GRM0335C2A9R2WA01#
				±0.1pF	GRM0335C2A9R2BA01#
				±0.25pF	GRM0335C2A9R2CA01#
				±0.5pF	GRM0335C2A9R2DA01#
			9.3pF	±0.05pF	GRM0335C2A9R3WA01#
				±0.1pF	GRM0335C2A9R3BA01#
				±0.25pF	GRM0335C2A9R3CA01#
				±0.5pF	GRM0335C2A9R3DA01#
			9.4pF	±0.05pF	GRM0335C2A9R4WA01#
				±0.1pF	GRM0335C2A9R4BA01#
				±0.25pF	GRM0335C2A9R4CA01#
				±0.5pF	GRM0335C2A9R4DA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	100Vdc	COG	9.5pF	±0.05pF	GRM0335C2A9R5WA01#	0.33mm	100Vdc	CK	1.3pF	±0.25pF	GRM0334C2A1R3CA01#	
				±0.1pF	GRM0335C2A9R5BA01#				1.4pF	±0.05pF	GRM0334C2A1R4WA01#	
				±0.25pF	GRM0335C2A9R5CA01#				1.4pF	±0.1pF	GRM0334C2A1R4BA01#	
				±0.5pF	GRM0335C2A9R5DA01#				1.5pF	±0.25pF	GRM0334C2A1R4CA01#	
			9.6pF	±0.05pF	GRM0335C2A9R6WA01#				1.5pF	±0.05pF	GRM0334C2A1R5WA01#	
				±0.1pF	GRM0335C2A9R6BA01#				1.5pF	±0.1pF	GRM0334C2A1R5BA01#	
				±0.25pF	GRM0335C2A9R6CA01#				1.5pF	±0.25pF	GRM0334C2A1R5CA01#	
				±0.5pF	GRM0335C2A9R6DA01#				1.6pF	±0.05pF	GRM0334C2A1R6WA01#	
			9.7pF	±0.05pF	GRM0335C2A9R7WA01#				1.6pF	±0.1pF	GRM0334C2A1R6BA01#	
				±0.1pF	GRM0335C2A9R7BA01#				1.6pF	±0.25pF	GRM0334C2A1R6CA01#	
				±0.25pF	GRM0335C2A9R7CA01#				1.7pF	±0.05pF	GRM0334C2A1R7WA01#	
				±0.5pF	GRM0335C2A9R7DA01#				1.7pF	±0.1pF	GRM0334C2A1R7BA01#	
			9.8pF	±0.05pF	GRM0335C2A9R8WA01#				1.7pF	±0.25pF	GRM0334C2A1R7CA01#	
				±0.1pF	GRM0335C2A9R8BA01#				1.8pF	±0.05pF	GRM0334C2A1R8WA01#	
				±0.25pF	GRM0335C2A9R8CA01#				1.8pF	±0.1pF	GRM0334C2A1R8BA01#	
				±0.5pF	GRM0335C2A9R8DA01#				1.8pF	±0.25pF	GRM0334C2A1R8CA01#	
			9.9pF	±0.05pF	GRM0335C2A9R9WA01#				1.9pF	±0.05pF	GRM0334C2A1R9WA01#	
				±0.1pF	GRM0335C2A9R9BA01#				1.9pF	±0.1pF	GRM0334C2A1R9BA01#	
				±0.25pF	GRM0335C2A9R9CA01#				1.9pF	±0.25pF	GRM0334C2A1R9CA01#	
				±0.5pF	GRM0335C2A9R9DA01#				2.0pF	±0.05pF	GRM0334C2A2R0WA01#	
			10pF	±2%	GRM0335C2A100GA01#				2.0pF	±0.1pF	GRM0334C2A2R0BA01#	
				±5%	GRM0335C2A100JA01#				2.0pF	±0.25pF	GRM0334C2A2R0CA01#	
			12pF	±2%	GRM0335C2A120GA01#				CJ	2.1pF	±0.05pF	GRM0333C2A2R1WA01#
				±5%	GRM0335C2A120JA01#				CJ	2.1pF	±0.1pF	GRM0333C2A2R1BA01#
			15pF	±2%	GRM0335C2A150GA01#				CJ	2.1pF	±0.25pF	GRM0333C2A2R1CA01#
				±5%	GRM0335C2A150JA01#				CJ	2.2pF	±0.05pF	GRM0333C2A2R2WA01#
		CK	0.10pF	±0.05pF	GRM0334C2AR10WA01#				CJ	2.2pF	±0.1pF	GRM0333C2A2R2BA01#
				±0.20pF	GRM0334C2AR20WA01#				CJ	2.2pF	±0.25pF	GRM0333C2A2R2CA01#
				±0.1pF	GRM0334C2AR20BA01#				CJ	2.3pF	±0.05pF	GRM0333C2A2R3WA01#
			0.30pF	±0.05pF	GRM0334C2AR30WA01#				CJ	2.3pF	±0.1pF	GRM0333C2A2R3BA01#
				±0.1pF	GRM0334C2AR30BA01#				CJ	2.3pF	±0.25pF	GRM0333C2A2R3CA01#
			0.40pF	±0.05pF	GRM0334C2AR40WA01#				CJ	2.4pF	±0.05pF	GRM0333C2A2R4WA01#
				±0.1pF	GRM0334C2AR40BA01#				CJ	2.4pF	±0.1pF	GRM0333C2A2R4BA01#
			0.50pF	±0.05pF	GRM0334C2AR50WA01#				CJ	2.4pF	±0.25pF	GRM0333C2A2R4CA01#
				±0.1pF	GRM0334C2AR50BA01#				CJ	2.5pF	±0.05pF	GRM0333C2A2R5WA01#
			0.60pF	±0.05pF	GRM0334C2AR60WA01#				CJ	2.5pF	±0.1pF	GRM0333C2A2R5BA01#
				±0.1pF	GRM0334C2AR60BA01#				CJ	2.5pF	±0.25pF	GRM0333C2A2R5CA01#
			0.70pF	±0.05pF	GRM0334C2AR70WA01#				CJ	2.6pF	±0.05pF	GRM0333C2A2R6WA01#
				±0.1pF	GRM0334C2AR70BA01#				CJ	2.6pF	±0.1pF	GRM0333C2A2R6BA01#
			0.80pF	±0.05pF	GRM0334C2AR80WA01#				CJ	2.6pF	±0.25pF	GRM0333C2A2R6CA01#
				±0.1pF	GRM0334C2AR80BA01#				CJ	2.7pF	±0.05pF	GRM0333C2A2R7WA01#
			0.90pF	±0.05pF	GRM0334C2AR90WA01#				CJ	2.7pF	±0.1pF	GRM0333C2A2R7BA01#
				±0.1pF	GRM0334C2AR90BA01#				CJ	2.7pF	±0.25pF	GRM0333C2A2R7CA01#
			1.0pF	±0.05pF	GRM0334C2A1R0WA01#				CJ	2.8pF	±0.05pF	GRM0333C2A2R8WA01#
				±0.1pF	GRM0334C2A1R0BA01#				CJ	2.8pF	±0.1pF	GRM0333C2A2R8BA01#
				±0.25pF	GRM0334C2A1R0CA01#				CJ	2.8pF	±0.25pF	GRM0333C2A2R8CA01#
			1.1pF	±0.05pF	GRM0334C2A1R1WA01#				CJ	2.9pF	±0.05pF	GRM0333C2A2R9WA01#
				±0.1pF	GRM0334C2A1R1BA01#				CJ	2.9pF	±0.1pF	GRM0333C2A2R9BA01#
				±0.25pF	GRM0334C2A1R1CA01#				CJ	2.9pF	±0.25pF	GRM0333C2A2R9CA01#
			1.2pF	±0.05pF	GRM0334C2A1R2WA01#				CJ	3.0pF	±0.05pF	GRM0333C2A3R0WA01#
				±0.1pF	GRM0334C2A1R2BA01#				CJ	3.0pF	±0.1pF	GRM0333C2A3R0BA01#
				±0.25pF	GRM0334C2A1R2CA01#				CJ	3.0pF	±0.25pF	GRM0333C2A3R0CA01#
			1.3pF	±0.05pF	GRM0334C2A1R3WA01#				CJ	3.1pF	±0.05pF	GRM0333C2A3R1WA01#
				±0.1pF	GRM0334C2A1R3BA01#				CJ	3.1pF	±0.1pF	GRM0333C2A3R1BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	CJ	3.1pF	±0.25pF	GRM0333C2A3R1CA01#	0.33mm	100Vdc	CH	4.9pF	±0.25pF	GRM0332C2A4R9CA01#
				±0.05pF	GRM0333C2A3R2WA01#					±0.05pF	GRM0332C2A5R0WA01#
				±0.1pF	GRM0333C2A3R2BA01#					±0.1pF	GRM0332C2A5R0BA01#
				±0.25pF	GRM0333C2A3R2CA01#					±0.25pF	GRM0332C2A5R0CA01#
			3.3pF	±0.05pF	GRM0333C2A3R3WA01#				5.1pF	±0.05pF	GRM0332C2A5R1WA01#
				±0.1pF	GRM0333C2A3R3BA01#					±0.1pF	GRM0332C2A5R1BA01#
				±0.25pF	GRM0333C2A3R3CA01#					±0.25pF	GRM0332C2A5R1CA01#
			3.4pF	±0.05pF	GRM0333C2A3R4WA01#				5.2pF	±0.05pF	GRM0332C2A5R1WA01#
				±0.1pF	GRM0333C2A3R4BA01#					±0.1pF	GRM0332C2A5R2BA01#
				±0.25pF	GRM0333C2A3R4CA01#					±0.25pF	GRM0332C2A5R2CA01#
			3.5pF	±0.05pF	GRM0333C2A3R5WA01#				5.3pF	±0.05pF	GRM0332C2A5R3WA01#
				±0.1pF	GRM0333C2A3R5BA01#					±0.1pF	GRM0332C2A5R3BA01#
				±0.25pF	GRM0333C2A3R5CA01#					±0.25pF	GRM0332C2A5R3CA01#
			3.6pF	±0.05pF	GRM0333C2A3R6WA01#				5.4pF	±0.05pF	GRM0332C2A5R4WA01#
				±0.1pF	GRM0333C2A3R6BA01#					±0.1pF	GRM0332C2A5R4BA01#
				±0.25pF	GRM0333C2A3R6CA01#					±0.25pF	GRM0332C2A5R4CA01#
			3.7pF	±0.05pF	GRM0333C2A3R7WA01#				5.5pF	±0.05pF	GRM0332C2A5R5WA01#
				±0.1pF	GRM0333C2A3R7BA01#					±0.1pF	GRM0332C2A5R5BA01#
				±0.25pF	GRM0333C2A3R7CA01#					±0.25pF	GRM0332C2A5R5CA01#
			3.8pF	±0.05pF	GRM0333C2A3R8WA01#				5.6pF	±0.05pF	GRM0332C2A5R6WA01#
				±0.1pF	GRM0333C2A3R8BA01#					±0.1pF	GRM0332C2A5R6BA01#
				±0.25pF	GRM0333C2A3R8CA01#					±0.25pF	GRM0332C2A5R6CA01#
			3.9pF	±0.05pF	GRM0333C2A3R9WA01#				5.7pF	±0.05pF	GRM0332C2A5R7WA01#
				±0.1pF	GRM0333C2A3R9BA01#					±0.1pF	GRM0332C2A5R7BA01#
				±0.25pF	GRM0333C2A3R9CA01#					±0.25pF	GRM0332C2A5R7CA01#
		CH	4.0pF	±0.05pF	GRM0332C2A4R0WA01#				5.8pF	±0.05pF	GRM0332C2A5R8WA01#
				±0.1pF	GRM0332C2A4R0BA01#					±0.1pF	GRM0332C2A5R8BA01#
				±0.25pF	GRM0332C2A4R0CA01#					±0.25pF	GRM0332C2A5R8CA01#
			4.1pF	±0.05pF	GRM0332C2A4R1WA01#				5.9pF	±0.05pF	GRM0332C2A5R9WA01#
				±0.1pF	GRM0332C2A4R1BA01#					±0.1pF	GRM0332C2A5R9BA01#
				±0.25pF	GRM0332C2A4R1CA01#					±0.25pF	GRM0332C2A5R9CA01#
			4.2pF	±0.05pF	GRM0332C2A4R2WA01#				6.0pF	±0.05pF	GRM0332C2A6R0WA01#
				±0.1pF	GRM0332C2A4R2BA01#					±0.1pF	GRM0332C2A6R0BA01#
				±0.25pF	GRM0332C2A4R2CA01#					±0.25pF	GRM0332C2A6R0CA01#
			4.3pF	±0.05pF	GRM0332C2A4R3WA01#				6.1pF	±0.05pF	GRM0332C2A6R1WA01#
				±0.1pF	GRM0332C2A4R3BA01#					±0.1pF	GRM0332C2A6R1BA01#
				±0.25pF	GRM0332C2A4R3CA01#					±0.25pF	GRM0332C2A6R1CA01#
			4.4pF	±0.05pF	GRM0332C2A4R4WA01#				6.2pF	±0.05pF	GRM0332C2A6R2WA01#
				±0.1pF	GRM0332C2A4R4BA01#					±0.1pF	GRM0332C2A6R2BA01#
				±0.25pF	GRM0332C2A4R4CA01#					±0.25pF	GRM0332C2A6R2CA01#
			4.5pF	±0.05pF	GRM0332C2A4R5WA01#				6.3pF	±0.05pF	GRM0332C2A6R3WA01#
				±0.1pF	GRM0332C2A4R5BA01#					±0.1pF	GRM0332C2A6R3BA01#
				±0.25pF	GRM0332C2A4R5CA01#					±0.25pF	GRM0332C2A6R3CA01#
			4.6pF	±0.05pF	GRM0332C2A4R6WA01#				6.4pF	±0.05pF	GRM0332C2A6R4WA01#
				±0.1pF	GRM0332C2A4R6BA01#					±0.1pF	GRM0332C2A6R4BA01#
				±0.25pF	GRM0332C2A4R6CA01#					±0.25pF	GRM0332C2A6R4CA01#
			4.7pF	±0.05pF	GRM0332C2A4R7WA01#				6.5pF	±0.05pF	GRM0332C2A6R5WA01#
				±0.1pF	GRM0332C2A4R7BA01#					±0.1pF	GRM0332C2A6R5BA01#
				±0.25pF	GRM0332C2A4R7CA01#					±0.25pF	GRM0332C2A6R5CA01#
			4.8pF	±0.05pF	GRM0332C2A4R8WA01#				6.6pF	±0.05pF	GRM0332C2A6R6WA01#
				±0.1pF	GRM0332C2A4R8BA01#					±0.1pF	GRM0332C2A6R6BA01#
				±0.25pF	GRM0332C2A4R8CA01#					±0.25pF	GRM0332C2A6R6CA01#
			4.9pF	±0.05pF	GRM0332C2A4R9WA01#				6.7pF	±0.05pF	GRM0332C2A6R7WA01#
				±0.1pF	GRM0332C2A4R9BA01#					±0.1pF	GRM0332C2A6R7BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	CH	6.3pF	±0.25pF	GRM0332C2A6R3CA01#	0.33mm	100Vdc	CH	7.7pF	±0.05pF	GRM0332C2A7R7WA01#
				±0.5pF	GRM0332C2A6R3DA01#					±0.1pF	GRM0332C2A7R7BA01#
			6.4pF	±0.05pF	GRM0332C2A6R4WA01#					±0.25pF	GRM0332C2A7R7CA01#
				±0.1pF	GRM0332C2A6R4BA01#					±0.5pF	GRM0332C2A7R7DA01#
				±0.25pF	GRM0332C2A6R4CA01#					±0.05pF	GRM0332C2A7R8WA01#
				±0.5pF	GRM0332C2A6R4DA01#					±0.1pF	GRM0332C2A7R8BA01#
			6.5pF	±0.05pF	GRM0332C2A6R5WA01#					±0.25pF	GRM0332C2A7R8CA01#
				±0.1pF	GRM0332C2A6R5BA01#					±0.5pF	GRM0332C2A7R8DA01#
				±0.25pF	GRM0332C2A6R5CA01#					±0.05pF	GRM0332C2A7R9WA01#
				±0.5pF	GRM0332C2A6R5DA01#					±0.1pF	GRM0332C2A7R9BA01#
			6.6pF	±0.05pF	GRM0332C2A6R6WA01#					±0.25pF	GRM0332C2A7R9CA01#
				±0.1pF	GRM0332C2A6R6BA01#					±0.5pF	GRM0332C2A7R9DA01#
				±0.25pF	GRM0332C2A6R6CA01#					±0.05pF	GRM0332C2A8R0WA01#
				±0.5pF	GRM0332C2A6R6DA01#					±0.1pF	GRM0332C2A8R0BA01#
			6.7pF	±0.05pF	GRM0332C2A6R7WA01#					±0.25pF	GRM0332C2A8R0CA01#
				±0.1pF	GRM0332C2A6R7BA01#					±0.5pF	GRM0332C2A8R0DA01#
				±0.25pF	GRM0332C2A6R7CA01#					±0.05pF	GRM0332C2A8R1WA01#
				±0.5pF	GRM0332C2A6R7DA01#					±0.1pF	GRM0332C2A8R1BA01#
			6.8pF	±0.05pF	GRM0332C2A6R8WA01#					±0.25pF	GRM0332C2A8R1CA01#
				±0.1pF	GRM0332C2A6R8BA01#					±0.5pF	GRM0332C2A8R1DA01#
				±0.25pF	GRM0332C2A6R8CA01#					±0.05pF	GRM0332C2A8R2WA01#
				±0.5pF	GRM0332C2A6R8DA01#					±0.1pF	GRM0332C2A8R2BA01#
			6.9pF	±0.05pF	GRM0332C2A6R9WA01#					±0.25pF	GRM0332C2A8R2CA01#
				±0.1pF	GRM0332C2A6R9BA01#					±0.5pF	GRM0332C2A8R2DA01#
				±0.25pF	GRM0332C2A6R9CA01#					±0.05pF	GRM0332C2A8R3WA01#
				±0.5pF	GRM0332C2A6R9DA01#					±0.1pF	GRM0332C2A8R3BA01#
			7.0pF	±0.05pF	GRM0332C2A7R0WA01#					±0.25pF	GRM0332C2A8R3CA01#
				±0.1pF	GRM0332C2A7R0BA01#					±0.5pF	GRM0332C2A8R3DA01#
				±0.25pF	GRM0332C2A7R0CA01#					±0.05pF	GRM0332C2A8R4WA01#
				±0.5pF	GRM0332C2A7R0DA01#					±0.1pF	GRM0332C2A8R4BA01#
			7.1pF	±0.05pF	GRM0332C2A7R1WA01#					±0.25pF	GRM0332C2A8R4CA01#
				±0.1pF	GRM0332C2A7R1BA01#					±0.5pF	GRM0332C2A8R4DA01#
				±0.25pF	GRM0332C2A7R1CA01#					±0.05pF	GRM0332C2A8R5WA01#
				±0.5pF	GRM0332C2A7R1DA01#					±0.1pF	GRM0332C2A8R5BA01#
			7.2pF	±0.05pF	GRM0332C2A7R2WA01#					±0.25pF	GRM0332C2A8R5CA01#
				±0.1pF	GRM0332C2A7R2BA01#					±0.5pF	GRM0332C2A8R5DA01#
				±0.25pF	GRM0332C2A7R2CA01#					±0.05pF	GRM0332C2A8R6WA01#
				±0.5pF	GRM0332C2A7R2DA01#					±0.1pF	GRM0332C2A8R6BA01#
			7.3pF	±0.05pF	GRM0332C2A7R3WA01#					±0.25pF	GRM0332C2A8R6CA01#
				±0.1pF	GRM0332C2A7R3BA01#					±0.5pF	GRM0332C2A8R6DA01#
				±0.25pF	GRM0332C2A7R3CA01#					±0.05pF	GRM0332C2A8R7WA01#
				±0.5pF	GRM0332C2A7R3DA01#					±0.1pF	GRM0332C2A8R7BA01#
			7.4pF	±0.05pF	GRM0332C2A7R4WA01#					±0.25pF	GRM0332C2A8R7CA01#
				±0.1pF	GRM0332C2A7R4BA01#					±0.5pF	GRM0332C2A8R7DA01#
				±0.25pF	GRM0332C2A7R4CA01#					±0.05pF	GRM0332C2A8R8WA01#
				±0.5pF	GRM0332C2A7R4DA01#					±0.1pF	GRM0332C2A8R8BA01#
			7.5pF	±0.05pF	GRM0332C2A7R5WA01#					±0.25pF	GRM0332C2A8R8CA01#
				±0.1pF	GRM0332C2A7R5BA01#					±0.5pF	GRM0332C2A8R8DA01#
				±0.25pF	GRM0332C2A7R5CA01#					±0.05pF	GRM0332C2A8R9WA01#
				±0.5pF	GRM0332C2A7R5DA01#					±0.1pF	GRM0332C2A8R9BA01#
			7.6pF	±0.05pF	GRM0332C2A7R6WA01#					±0.25pF	GRM0332C2A8R9CA01#
				±0.1pF	GRM0332C2A7R6BA01#					±0.5pF	GRM0332C2A8R9DA01#
				±0.25pF	GRM0332C2A7R6CA01#					±0.05pF	GRM0332C2A9R0WA01#
				±0.5pF	GRM0332C2A7R6DA01#					±0.1pF	GRM0332C2A9R0BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	100Vdc	CH	9.0pF	±0.25pF	GRM0332C2A9R0CA01#	0.33mm	50Vdc	COG	0.60pF	±0.1pF	GRM0335C1HR60BA01#
				±0.5pF	GRM0332C2A9R0DA01#				0.70pF	±0.05pF	GRM0335C1HR70WA01#
			9.1pF	±0.05pF	GRM0332C2A9R1WA01#				±0.1pF	GRM0335C1HR70BA01#	
				±0.1pF	GRM0332C2A9R1BA01#				0.80pF	±0.05pF	GRM0335C1HR80WA01#
				±0.25pF	GRM0332C2A9R1CA01#				±0.1pF	GRM0335C1HR80BA01#	
				±0.5pF	GRM0332C2A9R1DA01#				0.90pF	±0.05pF	GRM0335C1HR90WA01#
			9.2pF	±0.05pF	GRM0332C2A9R2WA01#				±0.1pF	GRM0335C1HR90BA01#	
				±0.1pF	GRM0332C2A9R2BA01#				1.0pF	±0.05pF	GRM0335C1H1R0WA01#
				±0.25pF	GRM0332C2A9R2CA01#				±0.1pF	GRM0335C1H1R0BA01#	
				±0.5pF	GRM0332C2A9R2DA01#				±0.25pF	GRM0335C1H1R0CA01#	
			9.3pF	±0.05pF	GRM0332C2A9R3WA01#				1.1pF	±0.05pF	GRM0335C1H1R1WA01#
				±0.1pF	GRM0332C2A9R3BA01#				±0.1pF	GRM0335C1H1R1BA01#	
				±0.25pF	GRM0332C2A9R3CA01#				±0.25pF	GRM0335C1H1R1CA01#	
				±0.5pF	GRM0332C2A9R3DA01#				1.2pF	±0.05pF	GRM0335C1H1R2WA01#
			9.4pF	±0.05pF	GRM0332C2A9R4WA01#				±0.1pF	GRM0335C1H1R2BA01#	
				±0.1pF	GRM0332C2A9R4BA01#				±0.25pF	GRM0335C1H1R2CA01#	
				±0.25pF	GRM0332C2A9R4CA01#				1.3pF	±0.05pF	GRM0335C1H1R3WA01#
				±0.5pF	GRM0332C2A9R4DA01#				±0.1pF	GRM0335C1H1R3BA01#	
			9.5pF	±0.05pF	GRM0332C2A9R5WA01#				±0.25pF	GRM0335C1H1R3CA01#	
				±0.1pF	GRM0332C2A9R5BA01#				1.4pF	±0.05pF	GRM0335C1H1R4WA01#
				±0.25pF	GRM0332C2A9R5CA01#				±0.1pF	GRM0335C1H1R4BA01#	
				±0.5pF	GRM0332C2A9R5DA01#				±0.25pF	GRM0335C1H1R4CA01#	
			9.6pF	±0.05pF	GRM0332C2A9R6WA01#				1.5pF	±0.05pF	GRM0335C1H1R5WA01#
				±0.1pF	GRM0332C2A9R6BA01#				±0.1pF	GRM0335C1H1R5BA01#	
				±0.25pF	GRM0332C2A9R6CA01#				±0.25pF	GRM0335C1H1R5CA01#	
				±0.5pF	GRM0332C2A9R6DA01#				1.6pF	±0.05pF	GRM0335C1H1R6WA01#
			9.7pF	±0.05pF	GRM0332C2A9R7WA01#				±0.1pF	GRM0335C1H1R6BA01#	
				±0.1pF	GRM0332C2A9R7BA01#				±0.25pF	GRM0335C1H1R6CA01#	
				±0.25pF	GRM0332C2A9R7CA01#				1.7pF	±0.05pF	GRM0335C1H1R7WA01#
				±0.5pF	GRM0332C2A9R7DA01#				±0.1pF	GRM0335C1H1R7BA01#	
			9.8pF	±0.05pF	GRM0332C2A9R8WA01#				±0.25pF	GRM0335C1H1R7CA01#	
				±0.1pF	GRM0332C2A9R8BA01#				1.8pF	±0.05pF	GRM0335C1H1R8WA01#
				±0.25pF	GRM0332C2A9R8CA01#				±0.1pF	GRM0335C1H1R8BA01#	
				±0.5pF	GRM0332C2A9R8DA01#				±0.25pF	GRM0335C1H1R8CA01#	
			9.9pF	±0.05pF	GRM0332C2A9R9WA01#				1.9pF	±0.05pF	GRM0335C1H1R9WA01#
				±0.1pF	GRM0332C2A9R9BA01#				±0.1pF	GRM0335C1H1R9BA01#	
				±0.25pF	GRM0332C2A9R9CA01#				±0.25pF	GRM0335C1H1R9CA01#	
				±0.5pF	GRM0332C2A9R9DA01#				2.0pF	±0.05pF	GRM0335C1H2R0WA01#
			10pF	±2%	GRM0332C2A100GA01#				±0.1pF	GRM0335C1H2R0BA01#	
				±5%	GRM0332C2A100JA01#				±0.25pF	GRM0335C1H2R0CA01#	
			12pF	±2%	GRM0332C2A120GA01#				2.1pF	±0.05pF	GRM0335C1H2R1WA01#
				±5%	GRM0332C2A120JA01#				±0.1pF	GRM0335C1H2R1BA01#	
			15pF	±2%	GRM0332C2A150GA01#				±0.25pF	GRM0335C1H2R1CA01#	
				±5%	GRM0332C2A150JA01#				2.2pF	±0.05pF	GRM0335C1H2R2WA01#
	50Vdc	COG	0.10pF	±0.05pF	GRM0335C1HR10WA01#				±0.1pF	GRM0335C1H2R2BA01#	
			0.20pF	±0.05pF	GRM0335C1HR20WA01#				±0.25pF	GRM0335C1H2R2CA01#	
				±0.1pF	GRM0335C1HR20BA01#				2.3pF	±0.05pF	GRM0335C1H2R3WA01#
			0.30pF	±0.05pF	GRM0335C1HR30WA01#				±0.1pF	GRM0335C1H2R3BA01#	
				±0.1pF	GRM0335C1HR30BA01#				±0.25pF	GRM0335C1H2R3CA01#	
			0.40pF	±0.05pF	GRM0335C1HR40WA01#				2.4pF	±0.05pF	GRM0335C1H2R4WA01#
				±0.1pF	GRM0335C1HR40BA01#				±0.1pF	GRM0335C1H2R4BA01#	
			0.50pF	±0.05pF	GRM0335C1HR50WA01#				±0.25pF	GRM0335C1H2R4CA01#	
				±0.1pF	GRM0335C1HR50BA01#				2.5pF	±0.05pF	GRM0335C1H2R5WA01#
				±0.60pF	GRM0335C1HR60WA01#				±0.1pF	GRM0335C1H2R5BA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	2.5pF	±0.25pF	GRM0335C1H2R5CA01#	0.33mm	50Vdc	COG	4.3pF	±0.25pF	GRM0335C1H4R3CA01#
			2.6pF	±0.05pF	GRM0335C1H2R6WA01#				4.4pF	±0.05pF	GRM0335C1H4R4WA01#
				±0.1pF	GRM0335C1H2R6BA01#					±0.1pF	GRM0335C1H4R4BA01#
				±0.25pF	GRM0335C1H2R6CA01#					±0.25pF	GRM0335C1H4R4CA01#
			2.7pF	±0.05pF	GRM0335C1H2R7WA01#				4.5pF	±0.05pF	GRM0335C1H4R5WA01#
				±0.1pF	GRM0335C1H2R7BA01#					±0.1pF	GRM0335C1H4R5BA01#
				±0.25pF	GRM0335C1H2R7CA01#					±0.25pF	GRM0335C1H4R5CA01#
			2.8pF	±0.05pF	GRM0335C1H2R8WA01#				4.6pF	±0.05pF	GRM0335C1H4R6WA01#
				±0.1pF	GRM0335C1H2R8BA01#					±0.1pF	GRM0335C1H4R6BA01#
				±0.25pF	GRM0335C1H2R8CA01#					±0.25pF	GRM0335C1H4R6CA01#
			2.9pF	±0.05pF	GRM0335C1H2R9WA01#				4.7pF	±0.05pF	GRM0335C1H4R7WA01#
				±0.1pF	GRM0335C1H2R9BA01#					±0.1pF	GRM0335C1H4R7BA01#
				±0.25pF	GRM0335C1H2R9CA01#					±0.25pF	GRM0335C1H4R7CA01#
			3.0pF	±0.05pF	GRM0335C1H3R0WA01#				4.8pF	±0.05pF	GRM0335C1H4R8WA01#
				±0.1pF	GRM0335C1H3R0BA01#					±0.1pF	GRM0335C1H4R8BA01#
				±0.25pF	GRM0335C1H3R0CA01#					±0.25pF	GRM0335C1H4R8CA01#
			3.1pF	±0.05pF	GRM0335C1H3R1WA01#				4.9pF	±0.05pF	GRM0335C1H4R9WA01#
				±0.1pF	GRM0335C1H3R1BA01#					±0.1pF	GRM0335C1H4R9BA01#
				±0.25pF	GRM0335C1H3R1CA01#					±0.25pF	GRM0335C1H4R9CA01#
			3.2pF	±0.05pF	GRM0335C1H3R2WA01#				5.0pF	±0.05pF	GRM0335C1H5R0WA01#
				±0.1pF	GRM0335C1H3R2BA01#					±0.1pF	GRM0335C1H5R0BA01#
				±0.25pF	GRM0335C1H3R2CA01#					±0.25pF	GRM0335C1H5R0CA01#
			3.3pF	±0.05pF	GRM0335C1H3R3WA01#				5.1pF	±0.05pF	GRM0335C1H5R1WA01#
				±0.1pF	GRM0335C1H3R3BA01#					±0.1pF	GRM0335C1H5R1BA01#
				±0.25pF	GRM0335C1H3R3CA01#					±0.25pF	GRM0335C1H5R1CA01#
			3.4pF	±0.05pF	GRM0335C1H3R4WA01#					±0.5pF	GRM0335C1H5R1DA01#
				±0.1pF	GRM0335C1H3R4BA01#				5.2pF	±0.05pF	GRM0335C1H5R2WA01#
				±0.25pF	GRM0335C1H3R4CA01#					±0.1pF	GRM0335C1H5R2BA01#
			3.5pF	±0.05pF	GRM0335C1H3R5WA01#					±0.25pF	GRM0335C1H5R2CA01#
				±0.1pF	GRM0335C1H3R5BA01#					±0.5pF	GRM0335C1H5R2DA01#
				±0.25pF	GRM0335C1H3R5CA01#				5.3pF	±0.05pF	GRM0335C1H5R3WA01#
			3.6pF	±0.05pF	GRM0335C1H3R6WA01#					±0.1pF	GRM0335C1H5R3BA01#
				±0.1pF	GRM0335C1H3R6BA01#					±0.25pF	GRM0335C1H5R3CA01#
				±0.25pF	GRM0335C1H3R6CA01#					±0.5pF	GRM0335C1H5R3DA01#
			3.7pF	±0.05pF	GRM0335C1H3R7WA01#				5.4pF	±0.05pF	GRM0335C1H5R4WA01#
				±0.1pF	GRM0335C1H3R7BA01#					±0.1pF	GRM0335C1H5R4BA01#
				±0.25pF	GRM0335C1H3R7CA01#					±0.25pF	GRM0335C1H5R4CA01#
			3.8pF	±0.05pF	GRM0335C1H3R8WA01#					±0.5pF	GRM0335C1H5R4DA01#
				±0.1pF	GRM0335C1H3R8BA01#				5.5pF	±0.05pF	GRM0335C1H5R5WA01#
				±0.25pF	GRM0335C1H3R8CA01#					±0.1pF	GRM0335C1H5R5BA01#
			3.9pF	±0.05pF	GRM0335C1H3R9WA01#					±0.25pF	GRM0335C1H5R5CA01#
				±0.1pF	GRM0335C1H3R9BA01#					±0.5pF	GRM0335C1H5R5DA01#
				±0.25pF	GRM0335C1H3R9CA01#				5.6pF	±0.05pF	GRM0335C1H5R6WA01#
			4.0pF	±0.05pF	GRM0335C1H4R0WA01#					±0.1pF	GRM0335C1H5R6BA01#
				±0.1pF	GRM0335C1H4R0BA01#					±0.25pF	GRM0335C1H5R6CA01#
				±0.25pF	GRM0335C1H4R0CA01#					±0.5pF	GRM0335C1H5R6DA01#
			4.1pF	±0.05pF	GRM0335C1H4R1WA01#				5.7pF	±0.05pF	GRM0335C1H5R7WA01#
				±0.1pF	GRM0335C1H4R1BA01#					±0.1pF	GRM0335C1H5R7BA01#
				±0.25pF	GRM0335C1H4R1CA01#					±0.25pF	GRM0335C1H5R7CA01#
			4.2pF	±0.05pF	GRM0335C1H4R2WA01#					±0.5pF	GRM0335C1H5R7DA01#
				±0.1pF	GRM0335C1H4R2BA01#				5.8pF	±0.05pF	GRM0335C1H5R8WA01#
				±0.25pF	GRM0335C1H4R2CA01#					±0.1pF	GRM0335C1H5R8BA01#
			4.3pF	±0.05pF	GRM0335C1H4R3WA01#					±0.25pF	GRM0335C1H5R8CA01#
				±0.1pF	GRM0335C1H4R3BA01#					±0.5pF	GRM0335C1H5R8DA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	5.9pF	±0.05pF	GRM0335C1H5R9WA01#	0.33mm	50Vdc	COG	7.2pF	±0.25pF	GRM0335C1H7R2CA01#
				±0.1pF	GRM0335C1H5R9BA01#					±0.5pF	GRM0335C1H7R2DA01#
				±0.25pF	GRM0335C1H5R9CA01#					±0.05pF	GRM0335C1H7R3WA01#
				±0.5pF	GRM0335C1H5R9DA01#					±0.1pF	GRM0335C1H7R3BA01#
			6.0pF	±0.05pF	GRM0335C1H6R0WA01#					±0.25pF	GRM0335C1H7R3CA01#
				±0.1pF	GRM0335C1H6R0BA01#					±0.5pF	GRM0335C1H7R3DA01#
				±0.25pF	GRM0335C1H6R0CA01#					±0.05pF	GRM0335C1H7R4WA01#
				±0.5pF	GRM0335C1H6R0DA01#					±0.1pF	GRM0335C1H7R4BA01#
			6.1pF	±0.05pF	GRM0335C1H6R1WA01#					±0.25pF	GRM0335C1H7R4CA01#
				±0.1pF	GRM0335C1H6R1BA01#					±0.5pF	GRM0335C1H7R4DA01#
				±0.25pF	GRM0335C1H6R1CA01#					±0.05pF	GRM0335C1H7R5WA01#
				±0.5pF	GRM0335C1H6R1DA01#					±0.1pF	GRM0335C1H7R5BA01#
			6.2pF	±0.05pF	GRM0335C1H6R2WA01#					±0.25pF	GRM0335C1H7R5CA01#
				±0.1pF	GRM0335C1H6R2BA01#					±0.5pF	GRM0335C1H7R5DA01#
				±0.25pF	GRM0335C1H6R2CA01#					±0.05pF	GRM0335C1H7R6WA01#
				±0.5pF	GRM0335C1H6R2DA01#					±0.1pF	GRM0335C1H7R6BA01#
			6.3pF	±0.05pF	GRM0335C1H6R3WA01#					±0.25pF	GRM0335C1H7R6CA01#
				±0.1pF	GRM0335C1H6R3BA01#					±0.5pF	GRM0335C1H7R6DA01#
				±0.25pF	GRM0335C1H6R3CA01#					±0.05pF	GRM0335C1H7R7WA01#
				±0.5pF	GRM0335C1H6R3DA01#					±0.1pF	GRM0335C1H7R7BA01#
			6.4pF	±0.05pF	GRM0335C1H6R4WA01#					±0.25pF	GRM0335C1H7R7CA01#
				±0.1pF	GRM0335C1H6R4BA01#					±0.5pF	GRM0335C1H7R7DA01#
				±0.25pF	GRM0335C1H6R4CA01#					±0.05pF	GRM0335C1H7R8WA01#
				±0.5pF	GRM0335C1H6R4DA01#					±0.1pF	GRM0335C1H7R8BA01#
			6.5pF	±0.05pF	GRM0335C1H6R5WA01#					±0.25pF	GRM0335C1H7R8CA01#
				±0.1pF	GRM0335C1H6R5BA01#					±0.5pF	GRM0335C1H7R8DA01#
				±0.25pF	GRM0335C1H6R5CA01#					±0.05pF	GRM0335C1H7R9WA01#
				±0.5pF	GRM0335C1H6R5DA01#					±0.1pF	GRM0335C1H7R9BA01#
			6.6pF	±0.05pF	GRM0335C1H6R6WA01#					±0.25pF	GRM0335C1H7R9CA01#
				±0.1pF	GRM0335C1H6R6BA01#					±0.5pF	GRM0335C1H7R9DA01#
				±0.25pF	GRM0335C1H6R6CA01#					±0.05pF	GRM0335C1H8R0WA01#
				±0.5pF	GRM0335C1H6R6DA01#					±0.1pF	GRM0335C1H8R0BA01#
			6.7pF	±0.05pF	GRM0335C1H6R7WA01#					±0.25pF	GRM0335C1H8R0CA01#
				±0.1pF	GRM0335C1H6R7BA01#					±0.5pF	GRM0335C1H8R0DA01#
				±0.25pF	GRM0335C1H6R7CA01#					±0.05pF	GRM0335C1H8R1WA01#
				±0.5pF	GRM0335C1H6R7DA01#					±0.1pF	GRM0335C1H8R1BA01#
			6.8pF	±0.05pF	GRM0335C1H6R8WA01#					±0.25pF	GRM0335C1H8R1CA01#
				±0.1pF	GRM0335C1H6R8BA01#					±0.5pF	GRM0335C1H8R1DA01#
				±0.25pF	GRM0335C1H6R8CA01#					±0.05pF	GRM0335C1H8R2WA01#
				±0.5pF	GRM0335C1H6R8DA01#					±0.1pF	GRM0335C1H8R2BA01#
			6.9pF	±0.05pF	GRM0335C1H6R9WA01#					±0.25pF	GRM0335C1H8R2CA01#
				±0.1pF	GRM0335C1H6R9BA01#					±0.5pF	GRM0335C1H8R2DA01#
				±0.25pF	GRM0335C1H6R9CA01#					±0.05pF	GRM0335C1H8R3WA01#
				±0.5pF	GRM0335C1H6R9DA01#					±0.1pF	GRM0335C1H8R3BA01#
			7.0pF	±0.05pF	GRM0335C1H7R0WA01#					±0.25pF	GRM0335C1H8R3CA01#
				±0.1pF	GRM0335C1H7R0BA01#					±0.5pF	GRM0335C1H8R3DA01#
				±0.25pF	GRM0335C1H7R0CA01#					±0.05pF	GRM0335C1H8R4WA01#
				±0.5pF	GRM0335C1H7R0DA01#					±0.1pF	GRM0335C1H8R4BA01#
			7.1pF	±0.05pF	GRM0335C1H7R1WA01#					±0.25pF	GRM0335C1H8R4CA01#
				±0.1pF	GRM0335C1H7R1BA01#					±0.5pF	GRM0335C1H8R4DA01#
				±0.25pF	GRM0335C1H7R1CA01#					±0.05pF	GRM0335C1H8R5WA01#
				±0.5pF	GRM0335C1H7R1DA01#					±0.1pF	GRM0335C1H8R5BA01#
			7.2pF	±0.05pF	GRM0335C1H7R2WA01#					±0.25pF	GRM0335C1H8R5CA01#
				±0.1pF	GRM0335C1H7R2BA01#					±0.5pF	GRM0335C1H8R5DA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	COG	8.6pF	±0.05pF	GRM0335C1H8R6WA01#	0.33mm	50Vdc	COG	9.9pF	±0.25pF	GRM0335C1H9R9CA01#	
				±0.1pF	GRM0335C1H8R6BA01#				±0.5pF	GRM0335C1H9R9DA01#		
				±0.25pF	GRM0335C1H8R6CA01#				±2%	GRM0335C1H100GA01#		
				±0.5pF	GRM0335C1H8R6DA01#				±5%	GRM0335C1H100JA01#		
			8.7pF	±0.05pF	GRM0335C1H8R7WA01#				±2%	GRM0335C1H120GA01#		
				±0.1pF	GRM0335C1H8R7BA01#				±5%	GRM0335C1H120JA01#		
				±0.25pF	GRM0335C1H8R7CA01#				±2%	GRM0335C1H150GA01#		
				±0.5pF	GRM0335C1H8R7DA01#				±5%	GRM0335C1H150JA01#		
			8.8pF	±0.05pF	GRM0335C1H8R8WA01#				±2%	GRM0335C1H180GA01#		
				±0.1pF	GRM0335C1H8R8BA01#				±5%	GRM0335C1H180JA01#		
				±0.25pF	GRM0335C1H8R8CA01#				±2%	GRM0335C1H220GA01#		
				±0.5pF	GRM0335C1H8R8DA01#				±5%	GRM0335C1H220JA01#		
			8.9pF	±0.05pF	GRM0335C1H8R9WA01#				±2%	GRM0335C1H270GA01#		
				±0.1pF	GRM0335C1H8R9BA01#				±5%	GRM0335C1H270JA01#		
				±0.25pF	GRM0335C1H8R9CA01#				±2%	GRM0335C1H330GA01#		
				±0.5pF	GRM0335C1H8R9DA01#				±5%	GRM0335C1H330JA01#		
			9.0pF	±0.05pF	GRM0335C1H9R0WA01#				±2%	GRM0335C1H390GA01#		
				±0.1pF	GRM0335C1H9R0BA01#				±5%	GRM0335C1H390JA01#		
				±0.25pF	GRM0335C1H9R0CA01#				±2%	GRM0335C1H470GA01#		
				±0.5pF	GRM0335C1H9R0DA01#				±5%	GRM0335C1H470JA01#		
			9.1pF	±0.05pF	GRM0335C1H9R1WA01#				±2%	GRM0335C1H560GA01#		
				±0.1pF	GRM0335C1H9R1BA01#				±5%	GRM0335C1H560JA01#		
				±0.25pF	GRM0335C1H9R1CA01#				±2%	GRM0335C1H680GA01#		
				±0.5pF	GRM0335C1H9R1DA01#				±5%	GRM0335C1H680JA01#		
			9.2pF	±0.05pF	GRM0335C1H9R2WA01#				±2%	GRM0335C1H820GA01#		
				±0.1pF	GRM0335C1H9R2BA01#				±5%	GRM0335C1H820JA01#		
				±0.25pF	GRM0335C1H9R2CA01#				±2%	GRM0335C1H101GA01#		
				±0.5pF	GRM0335C1H9R2DA01#				±5%	GRM0335C1H101JA01#		
			9.3pF	±0.05pF	GRM0335C1H9R3WA01#				±2%	GRM0335C1H121GA01#		
				±0.1pF	GRM0335C1H9R3BA01#				±5%	GRM0335C1H121JA01#		
				±0.25pF	GRM0335C1H9R3CA01#				±2%	GRM0335C1H151GA01#		
				±0.5pF	GRM0335C1H9R3DA01#				±5%	GRM0335C1H151JA01#		
			9.4pF	±0.05pF	GRM0335C1H9R4WA01#				±2%	GRM0335C1H181GA01#		
				±0.1pF	GRM0335C1H9R4BA01#				±5%	GRM0335C1H181JA01#		
				±0.25pF	GRM0335C1H9R4CA01#				±2%	GRM0335C1H221GA01#		
				±0.5pF	GRM0335C1H9R4DA01#				±5%	GRM0335C1H221JA01#		
			9.5pF	±0.05pF	GRM0335C1H9R5WA01#				CK	0.10pF	±0.05pF	GRM0334C1HR10WA01#
				±0.1pF	GRM0335C1H9R5BA01#					0.20pF	±0.05pF	GRM0334C1HR20WA01#
				±0.25pF	GRM0335C1H9R5CA01#					0.30pF	±0.1pF	GRM0334C1HR20BA01#
				±0.5pF	GRM0335C1H9R5DA01#					0.40pF	±0.05pF	GRM0334C1HR30WA01#
			9.6pF	±0.05pF	GRM0335C1H9R6WA01#						±0.1pF	GRM0334C1HR30BA01#
				±0.1pF	GRM0335C1H9R6BA01#					0.50pF	±0.05pF	GRM0334C1HR40WA01#
				±0.25pF	GRM0335C1H9R6CA01#						±0.1pF	GRM0334C1HR40BA01#
				±0.5pF	GRM0335C1H9R6DA01#					0.60pF	±0.05pF	GRM0334C1HR60WA01#
			9.7pF	±0.05pF	GRM0335C1H9R7WA01#						±0.1pF	GRM0334C1HR60BA01#
				±0.1pF	GRM0335C1H9R7BA01#					0.70pF	±0.05pF	GRM0334C1HR70WA01#
				±0.25pF	GRM0335C1H9R7CA01#						±0.1pF	GRM0334C1HR70BA01#
				±0.5pF	GRM0335C1H9R7DA01#					0.80pF	±0.05pF	GRM0334C1HR80WA01#
			9.8pF	±0.05pF	GRM0335C1H9R8WA01#						±0.1pF	GRM0334C1HR80BA01#
				±0.1pF	GRM0335C1H9R8BA01#					0.90pF	±0.05pF	GRM0334C1HR90WA01#
				±0.25pF	GRM0335C1H9R8CA01#						±0.1pF	GRM0334C1HR90BA01#
				±0.5pF	GRM0335C1H9R8DA01#					1.0pF	±0.05pF	GRM0334C1H1R0WA01#
			9.9pF	±0.05pF	GRM0335C1H9R9WA01#							
				±0.1pF	GRM0335C1H9R9BA01#							

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	CK	1.0pF	±0.1pF	GRM0334C1H1R0BA01#	0.33mm	50Vdc	CJ	2.8pF	±0.1pF	GRM0333C1H2R8BA01#
				±0.25pF	GRM0334C1H1R0CA01#					±0.25pF	GRM0333C1H2R8CA01#
		1.1pF	1.1pF	±0.05pF	GRM0334C1H1R1WA01#			2.9pF	±0.05pF	GRM0333C1H2R9WA01#	
				±0.1pF	GRM0334C1H1R1BA01#					±0.1pF	GRM0333C1H2R9BA01#
				±0.25pF	GRM0334C1H1R1CA01#					±0.25pF	GRM0333C1H2R9CA01#
		1.2pF	1.2pF	±0.05pF	GRM0334C1H1R2WA01#			3.0pF	±0.05pF	GRM0333C1H3R0WA01#	
				±0.1pF	GRM0334C1H1R2BA01#					±0.1pF	GRM0333C1H3R0BA01#
				±0.25pF	GRM0334C1H1R2CA01#					±0.25pF	GRM0333C1H3R0CA01#
		1.3pF	1.3pF	±0.05pF	GRM0334C1H1R3WA01#			3.1pF	±0.05pF	GRM0333C1H3R1WA01#	
				±0.1pF	GRM0334C1H1R3BA01#					±0.1pF	GRM0333C1H3R1BA01#
				±0.25pF	GRM0334C1H1R3CA01#					±0.25pF	GRM0333C1H3R1CA01#
		1.4pF	1.4pF	±0.05pF	GRM0334C1H1R4WA01#			3.2pF	±0.05pF	GRM0333C1H3R2WA01#	
				±0.1pF	GRM0334C1H1R4BA01#					±0.1pF	GRM0333C1H3R2BA01#
				±0.25pF	GRM0334C1H1R4CA01#					±0.25pF	GRM0333C1H3R2CA01#
		1.5pF	1.5pF	±0.05pF	GRM0334C1H1R5WA01#			3.3pF	±0.05pF	GRM0333C1H3R3WA01#	
				±0.1pF	GRM0334C1H1R5BA01#					±0.1pF	GRM0333C1H3R3BA01#
				±0.25pF	GRM0334C1H1R5CA01#					±0.25pF	GRM0333C1H3R3CA01#
		1.6pF	1.6pF	±0.05pF	GRM0334C1H1R6WA01#			3.4pF	±0.05pF	GRM0333C1H3R4WA01#	
				±0.1pF	GRM0334C1H1R6BA01#					±0.1pF	GRM0333C1H3R4BA01#
				±0.25pF	GRM0334C1H1R6CA01#					±0.25pF	GRM0333C1H3R4CA01#
		1.7pF	1.7pF	±0.05pF	GRM0334C1H1R7WA01#			3.5pF	±0.05pF	GRM0333C1H3R5WA01#	
				±0.1pF	GRM0334C1H1R7BA01#					±0.1pF	GRM0333C1H3R5BA01#
				±0.25pF	GRM0334C1H1R7CA01#					±0.25pF	GRM0333C1H3R5CA01#
		1.8pF	1.8pF	±0.05pF	GRM0334C1H1R8WA01#			3.6pF	±0.05pF	GRM0333C1H3R6WA01#	
				±0.1pF	GRM0334C1H1R8BA01#					±0.1pF	GRM0333C1H3R6BA01#
				±0.25pF	GRM0334C1H1R8CA01#					±0.25pF	GRM0333C1H3R6CA01#
		1.9pF	1.9pF	±0.05pF	GRM0334C1H1R9WA01#			3.7pF	±0.05pF	GRM0333C1H3R7WA01#	
				±0.1pF	GRM0334C1H1R9BA01#					±0.1pF	GRM0333C1H3R7BA01#
				±0.25pF	GRM0334C1H1R9CA01#					±0.25pF	GRM0333C1H3R7CA01#
		2.0pF	2.0pF	±0.05pF	GRM0334C1H2R0WA01#			3.8pF	±0.05pF	GRM0333C1H3R8WA01#	
				±0.1pF	GRM0334C1H2R0BA01#					±0.1pF	GRM0333C1H3R8BA01#
				±0.25pF	GRM0334C1H2R0CA01#					±0.25pF	GRM0333C1H3R8CA01#
		CJ	2.1pF	±0.05pF	GRM0333C1H2R1WA01#			3.9pF	±0.05pF	GRM0333C1H3R9WA01#	
				±0.1pF	GRM0333C1H2R1BA01#					±0.1pF	GRM0333C1H3R9BA01#
				±0.25pF	GRM0333C1H2R1CA01#					±0.25pF	GRM0333C1H3R9CA01#
		2.2pF	2.2pF	±0.05pF	GRM0333C1H2R2WA01#			CH	4.0pF	±0.05pF	GRM0332C1H4R0WA01#
				±0.1pF	GRM0333C1H2R2BA01#					±0.1pF	GRM0332C1H4R0BA01#
				±0.25pF	GRM0333C1H2R2CA01#					±0.25pF	GRM0332C1H4R0CA01#
		2.3pF	2.3pF	±0.05pF	GRM0333C1H2R3WA01#			4.1pF	±0.05pF	GRM0332C1H4R1WA01#	
				±0.1pF	GRM0333C1H2R3BA01#					±0.1pF	GRM0332C1H4R1BA01#
				±0.25pF	GRM0333C1H2R3CA01#					±0.25pF	GRM0332C1H4R1CA01#
		2.4pF	2.4pF	±0.05pF	GRM0333C1H2R4WA01#			4.2pF	±0.05pF	GRM0332C1H4R2WA01#	
				±0.1pF	GRM0333C1H2R4BA01#					±0.1pF	GRM0332C1H4R2BA01#
				±0.25pF	GRM0333C1H2R4CA01#					±0.25pF	GRM0332C1H4R2CA01#
		2.5pF	2.5pF	±0.05pF	GRM0333C1H2R5WA01#			4.3pF	±0.05pF	GRM0332C1H4R3WA01#	
				±0.1pF	GRM0333C1H2R5BA01#					±0.1pF	GRM0332C1H4R3BA01#
				±0.25pF	GRM0333C1H2R5CA01#					±0.25pF	GRM0332C1H4R3CA01#
		2.6pF	2.6pF	±0.05pF	GRM0333C1H2R6WA01#			4.4pF	±0.05pF	GRM0332C1H4R4WA01#	
				±0.1pF	GRM0333C1H2R6BA01#					±0.1pF	GRM0332C1H4R4BA01#
				±0.25pF	GRM0333C1H2R6CA01#					±0.25pF	GRM0332C1H4R4CA01#
		2.7pF	2.7pF	±0.05pF	GRM0333C1H2R7WA01#			4.5pF	±0.05pF	GRM0332C1H4R5WA01#	
				±0.1pF	GRM0333C1H2R7BA01#					±0.1pF	GRM0332C1H4R5BA01#
				±0.25pF	GRM0333C1H2R7CA01#					±0.25pF	GRM0332C1H4R5CA01#
		2.8pF	±0.05pF	GRM0333C1H2R8WA01#			4.6pF	±0.05pF	GRM0332C1H4R6WA01#		

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	CH	4.6pF	±0.1pF	GRM0332C1H4R6BA01#	0.33mm	50Vdc	CH	6.1pF	±0.05pF	GRM0332C1H6R1WA01#
				±0.25pF	GRM0332C1H4R6CA01#					±0.1pF	GRM0332C1H6R1BA01#
			4.7pF	±0.05pF	GRM0332C1H4R7WA01#					±0.25pF	GRM0332C1H6R1CA01#
				±0.1pF	GRM0332C1H4R7BA01#					±0.5pF	GRM0332C1H6R1DA01#
				±0.25pF	GRM0332C1H4R7CA01#					±0.05pF	GRM0332C1H6R2WA01#
			4.8pF	±0.05pF	GRM0332C1H4R8WA01#					±0.1pF	GRM0332C1H6R2BA01#
				±0.1pF	GRM0332C1H4R8BA01#					±0.25pF	GRM0332C1H6R2CA01#
				±0.25pF	GRM0332C1H4R8CA01#					±0.5pF	GRM0332C1H6R2DA01#
			4.9pF	±0.05pF	GRM0332C1H4R9WA01#					±0.05pF	GRM0332C1H6R3WA01#
				±0.1pF	GRM0332C1H4R9BA01#					±0.1pF	GRM0332C1H6R3BA01#
				±0.25pF	GRM0332C1H4R9CA01#					±0.25pF	GRM0332C1H6R3CA01#
			5.0pF	±0.05pF	GRM0332C1H5R0WA01#					±0.5pF	GRM0332C1H6R3DA01#
				±0.1pF	GRM0332C1H5R0BA01#					±0.05pF	GRM0332C1H6R4WA01#
				±0.25pF	GRM0332C1H5R0CA01#					±0.1pF	GRM0332C1H6R4BA01#
			5.1pF	±0.05pF	GRM0332C1H5R1WA01#					±0.25pF	GRM0332C1H6R4CA01#
				±0.1pF	GRM0332C1H5R1BA01#					±0.5pF	GRM0332C1H6R4DA01#
				±0.25pF	GRM0332C1H5R1CA01#					±0.05pF	GRM0332C1H6R5WA01#
				±0.5pF	GRM0332C1H5R1DA01#					±0.1pF	GRM0332C1H6R5BA01#
			5.2pF	±0.05pF	GRM0332C1H5R2WA01#					±0.25pF	GRM0332C1H6R5CA01#
				±0.1pF	GRM0332C1H5R2BA01#					±0.5pF	GRM0332C1H6R5DA01#
				±0.25pF	GRM0332C1H5R2CA01#					±0.05pF	GRM0332C1H6R6WA01#
				±0.5pF	GRM0332C1H5R2DA01#					±0.1pF	GRM0332C1H6R6BA01#
			5.3pF	±0.05pF	GRM0332C1H5R3WA01#					±0.25pF	GRM0332C1H6R6CA01#
				±0.1pF	GRM0332C1H5R3BA01#					±0.5pF	GRM0332C1H6R6DA01#
				±0.25pF	GRM0332C1H5R3CA01#					±0.05pF	GRM0332C1H6R7WA01#
				±0.5pF	GRM0332C1H5R3DA01#					±0.1pF	GRM0332C1H6R7BA01#
			5.4pF	±0.05pF	GRM0332C1H5R4WA01#					±0.25pF	GRM0332C1H6R7CA01#
				±0.1pF	GRM0332C1H5R4BA01#					±0.5pF	GRM0332C1H6R7DA01#
				±0.25pF	GRM0332C1H5R4CA01#					±0.05pF	GRM0332C1H6R8WA01#
				±0.5pF	GRM0332C1H5R4DA01#					±0.1pF	GRM0332C1H6R8BA01#
			5.5pF	±0.05pF	GRM0332C1H5R5WA01#					±0.25pF	GRM0332C1H6R8CA01#
				±0.1pF	GRM0332C1H5R5BA01#					±0.5pF	GRM0332C1H6R8DA01#
				±0.25pF	GRM0332C1H5R5CA01#					±0.05pF	GRM0332C1H6R9WA01#
				±0.5pF	GRM0332C1H5R5DA01#					±0.1pF	GRM0332C1H6R9BA01#
			5.6pF	±0.05pF	GRM0332C1H5R6WA01#					±0.25pF	GRM0332C1H6R9CA01#
				±0.1pF	GRM0332C1H5R6BA01#					±0.5pF	GRM0332C1H6R9DA01#
				±0.25pF	GRM0332C1H5R6CA01#					±0.05pF	GRM0332C1H7R0WA01#
				±0.5pF	GRM0332C1H5R6DA01#					±0.1pF	GRM0332C1H7R0BA01#
			5.7pF	±0.05pF	GRM0332C1H5R7WA01#					±0.25pF	GRM0332C1H7R0CA01#
				±0.1pF	GRM0332C1H5R7BA01#					±0.5pF	GRM0332C1H7R0DA01#
				±0.25pF	GRM0332C1H5R7CA01#					±0.05pF	GRM0332C1H7R1WA01#
				±0.5pF	GRM0332C1H5R7DA01#					±0.1pF	GRM0332C1H7R1BA01#
			5.8pF	±0.05pF	GRM0332C1H5R8WA01#					±0.25pF	GRM0332C1H7R1CA01#
				±0.1pF	GRM0332C1H5R8BA01#					±0.5pF	GRM0332C1H7R1DA01#
				±0.25pF	GRM0332C1H5R8CA01#					±0.05pF	GRM0332C1H7R2WA01#
				±0.5pF	GRM0332C1H5R8DA01#					±0.1pF	GRM0332C1H7R2BA01#
			5.9pF	±0.05pF	GRM0332C1H5R9WA01#					±0.25pF	GRM0332C1H7R2CA01#
				±0.1pF	GRM0332C1H5R9BA01#					±0.5pF	GRM0332C1H7R2DA01#
				±0.25pF	GRM0332C1H5R9CA01#					±0.05pF	GRM0332C1H7R3WA01#
				±0.5pF	GRM0332C1H5R9DA01#					±0.1pF	GRM0332C1H7R3BA01#
			6.0pF	±0.05pF	GRM0332C1H6R0WA01#					±0.25pF	GRM0332C1H7R3CA01#
				±0.1pF	GRM0332C1H6R0BA01#					±0.5pF	GRM0332C1H7R3DA01#
				±0.25pF	GRM0332C1H6R0CA01#					±0.05pF	GRM0332C1H7R4WA01#
				±0.5pF	GRM0332C1H6R0DA01#					±0.1pF	GRM0332C1H7R4BA01#

Part number # indicates the package specification code.

GRM Series GJM Series GMA Series GMD Series GQM Series GRJ Series GR3 Series LLL Series LLA Series LLM Series LLR Series KRM Series KR3 Series NFM Series GCH Series GCAUTION/ NOTICE

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	CH	7.4pF	±0.25pF	GRM0332C1H7R4CA01#
				±0.5pF	GRM0332C1H7R4DA01#
			7.5pF	±0.05pF	GRM0332C1H7R5WA01#
				±0.1pF	GRM0332C1H7R5BA01#
			7.6pF	±0.25pF	GRM0332C1H7R5CA01#
				±0.5pF	GRM0332C1H7R5DA01#
			7.7pF	±0.05pF	GRM0332C1H7R6WA01#
				±0.1pF	GRM0332C1H7R6BA01#
			7.8pF	±0.25pF	GRM0332C1H7R6CA01#
				±0.5pF	GRM0332C1H7R6DA01#
			7.9pF	±0.05pF	GRM0332C1H7R7WA01#
				±0.1pF	GRM0332C1H7R7BA01#
				±0.25pF	GRM0332C1H7R7CA01#
				±0.5pF	GRM0332C1H7R7DA01#
			8.0pF	±0.05pF	GRM0332C1H7R8WA01#
				±0.1pF	GRM0332C1H7R8BA01#
				±0.25pF	GRM0332C1H7R8CA01#
				±0.5pF	GRM0332C1H7R8DA01#
			8.1pF	±0.05pF	GRM0332C1H8R1WA01#
				±0.1pF	GRM0332C1H8R1BA01#
				±0.25pF	GRM0332C1H8R1CA01#
				±0.5pF	GRM0332C1H8R1DA01#
			8.2pF	±0.05pF	GRM0332C1H8R2WA01#
				±0.1pF	GRM0332C1H8R2BA01#
				±0.25pF	GRM0332C1H8R2CA01#
				±0.5pF	GRM0332C1H8R2DA01#
			8.3pF	±0.05pF	GRM0332C1H8R3WA01#
				±0.1pF	GRM0332C1H8R3BA01#
				±0.25pF	GRM0332C1H8R3CA01#
				±0.5pF	GRM0332C1H8R3DA01#
			8.4pF	±0.05pF	GRM0332C1H8R4WA01#
				±0.1pF	GRM0332C1H8R4BA01#
				±0.25pF	GRM0332C1H8R4CA01#
				±0.5pF	GRM0332C1H8R4DA01#
			8.5pF	±0.05pF	GRM0332C1H8R5WA01#
				±0.1pF	GRM0332C1H8R5BA01#
				±0.25pF	GRM0332C1H8R5CA01#
				±0.5pF	GRM0332C1H8R5DA01#
			8.6pF	±0.05pF	GRM0332C1H8R6WA01#
				±0.1pF	GRM0332C1H8R6BA01#
				±0.25pF	GRM0332C1H8R6CA01#
				±0.5pF	GRM0332C1H8R6DA01#
			8.7pF	±0.05pF	GRM0332C1H8R7WA01#
				±0.1pF	GRM0332C1H8R7BA01#
				±0.25pF	GRM0332C1H8R7CA01#
				±0.5pF	GRM0332C1H8R7DA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	CH	8.8pF	±0.05pF	GRM0332C1H8R8WA01#
				±0.1pF	GRM0332C1H8R8BA01#
				±0.25pF	GRM0332C1H8R8CA01#
				±0.5pF	GRM0332C1H8R8DA01#
			8.9pF	±0.05pF	GRM0332C1H8R9WA01#
				±0.1pF	GRM0332C1H8R9BA01#
				±0.25pF	GRM0332C1H8R9CA01#
				±0.5pF	GRM0332C1H8R9DA01#
			9.0pF	±0.05pF	GRM0332C1H9R0WA01#
				±0.1pF	GRM0332C1H9R0BA01#
				±0.25pF	GRM0332C1H9R0CA01#
				±0.5pF	GRM0332C1H9R0DA01#
			9.1pF	±0.05pF	GRM0332C1H9R1WA01#
				±0.1pF	GRM0332C1H9R1BA01#
				±0.25pF	GRM0332C1H9R1CA01#
				±0.5pF	GRM0332C1H9R1DA01#
			9.2pF	±0.05pF	GRM0332C1H9R2WA01#
				±0.1pF	GRM0332C1H9R2BA01#
				±0.25pF	GRM0332C1H9R2CA01#
				±0.5pF	GRM0332C1H9R2DA01#
			9.3pF	±0.05pF	GRM0332C1H9R3WA01#
				±0.1pF	GRM0332C1H9R3BA01#
				±0.25pF	GRM0332C1H9R3CA01#
				±0.5pF	GRM0332C1H9R3DA01#
			9.4pF	±0.05pF	GRM0332C1H9R4WA01#
				±0.1pF	GRM0332C1H9R4BA01#
				±0.25pF	GRM0332C1H9R4CA01#
				±0.5pF	GRM0332C1H9R4DA01#
			9.5pF	±0.05pF	GRM0332C1H9R5WA01#
				±0.1pF	GRM0332C1H9R5BA01#
				±0.25pF	GRM0332C1H9R5CA01#
				±0.5pF	GRM0332C1H9R5DA01#
			9.6pF	±0.05pF	GRM0332C1H9R6WA01#
				±0.1pF	GRM0332C1H9R6BA01#
				±0.25pF	GRM0332C1H9R6CA01#
				±0.5pF	GRM0332C1H9R6DA01#
			9.7pF	±0.05pF	GRM0332C1H9R7WA01#
				±0.1pF	GRM0332C1H9R7BA01#
				±0.25pF	GRM0332C1H9R7CA01#
				±0.5pF	GRM0332C1H9R7DA01#
			9.8pF	±0.05pF	GRM0332C1H9R8WA01#
				±0.1pF	GRM0332C1H9R8BA01#
				±0.25pF	GRM0332C1H9R8CA01#
				±0.5pF	GRM0332C1H9R8DA01#
			9.9pF	±0.05pF	GRM0332C1H9R9WA01#
				±0.1pF	GRM0332C1H9R9BA01#
				±0.25pF	GRM0332C1H9R9CA01#
				±0.5pF	GRM0332C1H9R9DA01#
			10pF	±2%	GRM0332C1H100GA01#
				±5%	GRM0332C1H100JA01#
			12pF	±2%	GRM0332C1H120GA01#
				±5%	GRM0332C1H120JA01#
			15pF	±2%	GRM0332C1H150GA01#
				±5%	GRM0332C1H150JA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	CH	18pF	±2%	GRM0332C1H180GA01#
				±5%	GRM0332C1H180JA01#
			22pF	±2%	GRM0332C1H220GA01#
				±5%	GRM0332C1H220JA01#
			27pF	±2%	GRM0332C1H270GA01#
				±5%	GRM0332C1H270JA01#
			33pF	±2%	GRM0332C1H330GA01#
				±5%	GRM0332C1H330JA01#
			39pF	±2%	GRM0332C1H390GA01#
				±5%	GRM0332C1H390JA01#
			47pF	±2%	GRM0332C1H470GA01#
				±5%	GRM0332C1H470JA01#
			56pF	±2%	GRM0332C1H560GA01#
				±5%	GRM0332C1H560JA01#
			68pF	±2%	GRM0332C1H680GA01#
				±5%	GRM0332C1H680JA01#
			82pF	±2%	GRM0332C1H820GA01#
				±5%	GRM0332C1H820JA01#
			100pF	±2%	GRM0332C1H101GA01#
				±5%	GRM0332C1H101JA01#
			120pF	±2%	GRM0332C1H121GA01#
				±5%	GRM0332C1H121JA01#
			150pF	±2%	GRM0332C1H151GA01#
				±5%	GRM0332C1H151JA01#
			180pF	±2%	GRM0332C1H181GA01#
				±5%	GRM0332C1H181JA01#
			220pF	±2%	GRM0332C1H221GA01#
				±5%	GRM0332C1H221JA01#
25Vdc	COG	CH	270pF	±2%	GRM0335C1E271GA01#
				±5%	GRM0335C1E271JA01#
			330pF	±2%	GRM0335C1E331GA01#
				±5%	GRM0335C1E331JA01#
			390pF	±2%	GRM0335C1E391GA01#
				±5%	GRM0335C1E391JA01#
			470pF	±2%	GRM0335C1E471GA01#
				±5%	GRM0335C1E471JA01#
			560pF	±2%	GRM0335C1E561GA01#
				±5%	GRM0335C1E561JA01#
			680pF	±2%	GRM0335C1E681GA01#
				±5%	GRM0335C1E681JA01#
			820pF	±2%	GRM0335C1E821GA01#
				±5%	GRM0335C1E821JA01#
			910pF	±2%	GRM0335C1E911GA01#
				±5%	GRM0335C1E911JA01#
			1000pF	±2%	GRM0335C1E102GA01#
				±5%	GRM0335C1E102JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	CH	560pF	±2%	GRM0332C1E561GA01#
				±5%	GRM0332C1E561JA01#
			680pF	±2%	GRM0332C1E681GA01#
				±5%	GRM0332C1E681JA01#
			820pF	±2%	GRM0332C1E821GA01#
				±5%	GRM0332C1E821JA01#
			1000pF	±2%	GRM0332C1E102GA01#
				±5%	GRM0332C1E102JA01#

1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	0.10pF	±0.05pF	GRM1555C2AR10WA01#
				±0.1pF	GRM1555C2AR20BA01#
			0.20pF	±0.05pF	GRM1555C2AR20WA01#
				±0.1pF	GRM1555C2AR30BA01#
			0.30pF	±0.05pF	GRM1555C2AR30WA01#
				±0.1pF	GRM1555C2AR30BA01#
			0.40pF	±0.05pF	GRM1555C2AR40WA01#
				±0.1pF	GRM1555C2AR40BA01#
			0.50pF	±0.05pF	GRM1555C2AR50WA01#
				±0.1pF	GRM1555C2AR50BA01#
			0.60pF	±0.05pF	GRM1555C2AR60WA01#
				±0.1pF	GRM1555C2AR60BA01#
			0.70pF	±0.05pF	GRM1555C2AR70WA01#
				±0.1pF	GRM1555C2AR70BA01#
			0.80pF	±0.05pF	GRM1555C2AR80WA01#
				±0.1pF	GRM1555C2AR80BA01#
			0.90pF	±0.05pF	GRM1555C2AR90WA01#
				±0.1pF	GRM1555C2AR90BA01#
			1.0pF	±0.05pF	GRM1555C2A1R0WA01#
				±0.1pF	GRM1555C2A1R0BA01#
			1.1pF	±0.25pF	GRM1555C2A1R0CA01#
				±0.25pF	GRM1555C2A1R1WA01#
			1.2pF	±0.25pF	GRM1555C2A1R1BA01#
				±0.25pF	GRM1555C2A1R2CA01#
			1.3pF	±0.25pF	GRM1555C2A1R3WA01#
				±0.25pF	GRM1555C2A1R3BA01#
			1.4pF	±0.25pF	GRM1555C2A1R4WA01#
				±0.25pF	GRM1555C2A1R4BA01#
			1.5pF	±0.25pF	GRM1555C2A1R5WA01#
				±0.25pF	GRM1555C2A1R5BA01#
			1.6pF	±0.25pF	GRM1555C2A1R6WA01#
				±0.25pF	GRM1555C2A1R6BA01#
			1.7pF	±0.25pF	GRM1555C2A1R7WA01#
				±0.25pF	GRM1555C2A1R7BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	1.8pF	±0.05pF	GRM1555C2A1R8WA01#
				±0.1pF	GRM1555C2A1R8BA01#
				±0.25pF	GRM1555C2A1R8CA01#
			1.9pF	±0.05pF	GRM1555C2A1R9WA01#
				±0.1pF	GRM1555C2A1R9BA01#
				±0.25pF	GRM1555C2A1R9CA01#
			2.0pF	±0.05pF	GRM1555C2A2R0WA01#
				±0.1pF	GRM1555C2A2R0BA01#
				±0.25pF	GRM1555C2A2R0CA01#
			2.1pF	±0.05pF	GRM1555C2A2R1WA01#
				±0.1pF	GRM1555C2A2R1BA01#
				±0.25pF	GRM1555C2A2R1CA01#
			2.2pF	±0.05pF	GRM1555C2A2R2WA01#
				±0.1pF	GRM1555C2A2R2BA01#
				±0.25pF	GRM1555C2A2R2CA01#
			2.3pF	±0.05pF	GRM1555C2A2R3WA01#
				±0.1pF	GRM1555C2A2R3BA01#
				±0.25pF	GRM1555C2A2R3CA01#
			2.4pF	±0.05pF	GRM1555C2A2R4WA01#
				±0.1pF	GRM1555C2A2R4BA01#
				±0.25pF	GRM1555C2A2R4CA01#
			2.5pF	±0.05pF	GRM1555C2A2R5WA01#
				±0.1pF	GRM1555C2A2R5BA01#
				±0.25pF	GRM1555C2A2R5CA01#
			2.6pF	±0.05pF	GRM1555C2A2R6WA01#
				±0.1pF	GRM1555C2A2R6BA01#
				±0.25pF	GRM1555C2A2R6CA01#
			2.7pF	±0.05pF	GRM1555C2A2R7WA01#
				±0.1pF	GRM1555C2A2R7BA01#
				±0.25pF	GRM1555C2A2R7CA01#
			2.8pF	±0.05pF	GRM1555C2A2R8WA01#
				±0.1pF	GRM1555C2A2R8BA01#
				±0.25pF	GRM1555C2A2R8CA01#
			2.9pF	±0.05pF	GRM1555C2A2R9WA01#
				±0.1pF	GRM1555C2A2R9BA01#
				±0.25pF	GRM1555C2A2R9CA01#
			3.0pF	±0.05pF	GRM1555C2A3R0WA01#
				±0.1pF	GRM1555C2A3R0BA01#
				±0.25pF	GRM1555C2A3R0CA01#
			3.1pF	±0.05pF	GRM1555C2A3R1WA01#
				±0.1pF	GRM1555C2A3R1BA01#
				±0.25pF	GRM1555C2A3R1CA01#
			3.2pF	±0.05pF	GRM1555C2A3R2WA01#
				±0.1pF	GRM1555C2A3R2BA01#
				±0.25pF	GRM1555C2A3R2CA01#
			3.3pF	±0.05pF	GRM1555C2A3R3WA01#
				±0.1pF	GRM1555C2A3R3BA01#
				±0.25pF	GRM1555C2A3R3CA01#
			3.4pF	±0.05pF	GRM1555C2A3R4WA01#
				±0.1pF	GRM1555C2A3R4BA01#
				±0.25pF	GRM1555C2A3R4CA01#
			3.5pF	±0.05pF	GRM1555C2A3R5WA01#
				±0.1pF	GRM1555C2A3R5BA01#
				±0.25pF	GRM1555C2A3R5CA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	3.6pF	±0.05pF	GRM1555C2A3R6WA01#
				±0.1pF	GRM1555C2A3R6BA01#
				±0.25pF	GRM1555C2A3R6CA01#
			3.7pF	±0.05pF	GRM1555C2A3R7WA01#
				±0.1pF	GRM1555C2A3R7BA01#
				±0.25pF	GRM1555C2A3R7CA01#
			3.8pF	±0.05pF	GRM1555C2A3R8WA01#
				±0.1pF	GRM1555C2A3R8BA01#
				±0.25pF	GRM1555C2A3R8CA01#
			3.9pF	±0.05pF	GRM1555C2A3R9WA01#
				±0.1pF	GRM1555C2A3R9BA01#
				±0.25pF	GRM1555C2A3R9CA01#
			4.0pF	±0.05pF	GRM1555C2A4R0WA01#
				±0.1pF	GRM1555C2A4R0BA01#
				±0.25pF	GRM1555C2A4R0CA01#
			4.1pF	±0.05pF	GRM1555C2A4R1WA01#
				±0.1pF	GRM1555C2A4R1BA01#
				±0.25pF	GRM1555C2A4R1CA01#
			4.2pF	±0.05pF	GRM1555C2A4R2WA01#
				±0.1pF	GRM1555C2A4R2BA01#
				±0.25pF	GRM1555C2A4R2CA01#
			4.3pF	±0.05pF	GRM1555C2A4R3WA01#
				±0.1pF	GRM1555C2A4R3BA01#
				±0.25pF	GRM1555C2A4R3CA01#
			4.4pF	±0.05pF	GRM1555C2A4R4WA01#
				±0.1pF	GRM1555C2A4R4BA01#
				±0.25pF	GRM1555C2A4R4CA01#
			4.5pF	±0.05pF	GRM1555C2A4R5WA01#
				±0.1pF	GRM1555C2A4R5BA01#
				±0.25pF	GRM1555C2A4R5CA01#
			4.6pF	±0.05pF	GRM1555C2A4R6WA01#
				±0.1pF	GRM1555C2A4R6BA01#
				±0.25pF	GRM1555C2A4R6CA01#
			4.7pF	±0.05pF	GRM1555C2A4R7WA01#
				±0.1pF	GRM1555C2A4R7BA01#
				±0.25pF	GRM1555C2A4R7CA01#
			4.8pF	±0.05pF	GRM1555C2A4R8WA01#
				±0.1pF	GRM1555C2A4R8BA01#
				±0.25pF	GRM1555C2A4R8CA01#
			4.9pF	±0.05pF	GRM1555C2A4R9WA01#
				±0.1pF	GRM1555C2A4R9BA01#
				±0.25pF	GRM1555C2A4R9CA01#
			5.0pF	±0.05pF	GRM1555C2A5R0WA01#
				±0.1pF	GRM1555C2A5R0BA01#
				±0.25pF	GRM1555C2A5R0CA01#
			5.1pF	±0.05pF	GRM1555C2A5R1WA01#
				±0.1pF	GRM1555C2A5R1BA01#
				±0.25pF	GRM1555C2A5R1CA01#
			5.2pF	±0.05pF	GRM1555C2A5R2WA01#
				±0.1pF	GRM1555C2A5R2BA01#
				±0.25pF	GRM1555C2A5R2CA01#
			5.3pF	±0.05pF	GRM1555C2A5R3WA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	5.3pF	±0.1pF	GRM1555C2A5R3BA01#	0.55mm	100Vdc	COG	6.6pF	±0.5pF	GRM1555C2A6R6DA01#
				±0.25pF	GRM1555C2A5R3CA01#				6.7pF	±0.05pF	GRM1555C2A6R7WA01#
				±0.5pF	GRM1555C2A5R3DA01#					±0.1pF	GRM1555C2A6R7BA01#
			5.4pF	±0.05pF	GRM1555C2A5R4WA01#					±0.25pF	GRM1555C2A6R7CA01#
				±0.1pF	GRM1555C2A5R4BA01#					±0.5pF	GRM1555C2A6R7DA01#
				±0.25pF	GRM1555C2A5R4CA01#				6.8pF	±0.05pF	GRM1555C2A6R8WA01#
				±0.5pF	GRM1555C2A5R4DA01#					±0.1pF	GRM1555C2A6R8BA01#
			5.5pF	±0.05pF	GRM1555C2A5R5WA01#					±0.25pF	GRM1555C2A6R8CA01#
				±0.1pF	GRM1555C2A5R5BA01#					±0.5pF	GRM1555C2A6R8DA01#
				±0.25pF	GRM1555C2A5R5CA01#				6.9pF	±0.05pF	GRM1555C2A6R9WA01#
				±0.5pF	GRM1555C2A5R5DA01#					±0.1pF	GRM1555C2A6R9BA01#
			5.6pF	±0.05pF	GRM1555C2A5R6WA01#					±0.25pF	GRM1555C2A6R9CA01#
				±0.1pF	GRM1555C2A5R6BA01#					±0.5pF	GRM1555C2A6R9DA01#
				±0.25pF	GRM1555C2A5R6CA01#				7.0pF	±0.05pF	GRM1555C2A7R0WA01#
				±0.5pF	GRM1555C2A5R6DA01#					±0.1pF	GRM1555C2A7R0BA01#
			5.7pF	±0.05pF	GRM1555C2A5R7WA01#					±0.25pF	GRM1555C2A7R0CA01#
				±0.1pF	GRM1555C2A5R7BA01#					±0.5pF	GRM1555C2A7R0DA01#
				±0.25pF	GRM1555C2A5R7CA01#				7.1pF	±0.05pF	GRM1555C2A7R1WA01#
				±0.5pF	GRM1555C2A5R7DA01#					±0.1pF	GRM1555C2A7R1BA01#
			5.8pF	±0.05pF	GRM1555C2A5R8WA01#					±0.25pF	GRM1555C2A7R1CA01#
				±0.1pF	GRM1555C2A5R8BA01#					±0.5pF	GRM1555C2A7R1DA01#
				±0.25pF	GRM1555C2A5R8CA01#				7.2pF	±0.05pF	GRM1555C2A7R2WA01#
				±0.5pF	GRM1555C2A5R8DA01#					±0.1pF	GRM1555C2A7R2BA01#
			5.9pF	±0.05pF	GRM1555C2A5R9WA01#					±0.25pF	GRM1555C2A7R2CA01#
				±0.1pF	GRM1555C2A5R9BA01#					±0.5pF	GRM1555C2A7R2DA01#
				±0.25pF	GRM1555C2A5R9CA01#				7.3pF	±0.05pF	GRM1555C2A7R3WA01#
				±0.5pF	GRM1555C2A5R9DA01#					±0.1pF	GRM1555C2A7R3BA01#
			6.0pF	±0.05pF	GRM1555C2A6R0WA01#					±0.25pF	GRM1555C2A7R3CA01#
				±0.1pF	GRM1555C2A6R0BA01#					±0.5pF	GRM1555C2A7R3DA01#
				±0.25pF	GRM1555C2A6R0CA01#				7.4pF	±0.05pF	GRM1555C2A7R4WA01#
				±0.5pF	GRM1555C2A6R0DA01#					±0.1pF	GRM1555C2A7R4BA01#
			6.1pF	±0.05pF	GRM1555C2A6R1WA01#					±0.25pF	GRM1555C2A7R4CA01#
				±0.1pF	GRM1555C2A6R1BA01#					±0.5pF	GRM1555C2A7R4DA01#
				±0.25pF	GRM1555C2A6R1CA01#				7.5pF	±0.05pF	GRM1555C2A7R5WA01#
				±0.5pF	GRM1555C2A6R1DA01#					±0.1pF	GRM1555C2A7R5BA01#
			6.2pF	±0.05pF	GRM1555C2A6R2WA01#					±0.25pF	GRM1555C2A7R5CA01#
				±0.1pF	GRM1555C2A6R2BA01#					±0.5pF	GRM1555C2A7R5DA01#
				±0.25pF	GRM1555C2A6R2CA01#				7.6pF	±0.05pF	GRM1555C2A7R6WA01#
				±0.5pF	GRM1555C2A6R2DA01#					±0.1pF	GRM1555C2A7R6BA01#
			6.3pF	±0.05pF	GRM1555C2A6R3WA01#					±0.25pF	GRM1555C2A7R6CA01#
				±0.1pF	GRM1555C2A6R3BA01#					±0.5pF	GRM1555C2A7R6DA01#
				±0.25pF	GRM1555C2A6R3CA01#				7.7pF	±0.05pF	GRM1555C2A7R7WA01#
				±0.5pF	GRM1555C2A6R3DA01#					±0.1pF	GRM1555C2A7R7BA01#
			6.4pF	±0.05pF	GRM1555C2A6R4WA01#					±0.25pF	GRM1555C2A7R7CA01#
				±0.1pF	GRM1555C2A6R4BA01#					±0.5pF	GRM1555C2A7R7DA01#
				±0.25pF	GRM1555C2A6R4CA01#				7.8pF	±0.05pF	GRM1555C2A7R8WA01#
				±0.5pF	GRM1555C2A6R4DA01#					±0.1pF	GRM1555C2A7R8BA01#
			6.5pF	±0.05pF	GRM1555C2A6R5WA01#					±0.25pF	GRM1555C2A7R8CA01#
				±0.1pF	GRM1555C2A6R5BA01#					±0.5pF	GRM1555C2A7R8DA01#
				±0.25pF	GRM1555C2A6R5CA01#				7.9pF	±0.05pF	GRM1555C2A7R9WA01#
				±0.5pF	GRM1555C2A6R5DA01#					±0.1pF	GRM1555C2A7R9BA01#
			6.6pF	±0.05pF	GRM1555C2A6R6WA01#					±0.25pF	GRM1555C2A7R9CA01#
				±0.1pF	GRM1555C2A6R6BA01#					±0.5pF	GRM1555C2A7R9DA01#
				±0.25pF	GRM1555C2A6R6CA01#					±0.05pF	GRM1555C2A8R0WA01#

Part number # indicates the package specification code.

GRM Series GJM Series GMA Series GMD Series GQM Series GRJ Series GR3 Series LLA Series LLL Series LLR Series KRM Series KRM Series NFM Series GCH Series GCH Series Notice

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	8.0pF	±0.1pF	GRM1555C2A8R0BA01#
				±0.25pF	GRM1555C2A8R0CA01#
				±0.5pF	GRM1555C2A8R0DA01#
			8.1pF	±0.05pF	GRM1555C2A8R1WA01#
				±0.1pF	GRM1555C2A8R1BA01#
				±0.25pF	GRM1555C2A8R1CA01#
				±0.5pF	GRM1555C2A8R1DA01#
			8.2pF	±0.05pF	GRM1555C2A8R2WA01#
				±0.1pF	GRM1555C2A8R2BA01#
				±0.25pF	GRM1555C2A8R2CA01#
				±0.5pF	GRM1555C2A8R2DA01#
			8.3pF	±0.05pF	GRM1555C2A8R3WA01#
				±0.1pF	GRM1555C2A8R3BA01#
				±0.25pF	GRM1555C2A8R3CA01#
				±0.5pF	GRM1555C2A8R3DA01#
			8.4pF	±0.05pF	GRM1555C2A8R4WA01#
				±0.1pF	GRM1555C2A8R4BA01#
				±0.25pF	GRM1555C2A8R4CA01#
				±0.5pF	GRM1555C2A8R4DA01#
			8.5pF	±0.05pF	GRM1555C2A8R5WA01#
				±0.1pF	GRM1555C2A8R5BA01#
				±0.25pF	GRM1555C2A8R5CA01#
				±0.5pF	GRM1555C2A8R5DA01#
			8.6pF	±0.05pF	GRM1555C2A8R6WA01#
				±0.1pF	GRM1555C2A8R6BA01#
				±0.25pF	GRM1555C2A8R6CA01#
				±0.5pF	GRM1555C2A8R6DA01#
			8.7pF	±0.05pF	GRM1555C2A8R7WA01#
				±0.1pF	GRM1555C2A8R7BA01#
				±0.25pF	GRM1555C2A8R7CA01#
				±0.5pF	GRM1555C2A8R7DA01#
			8.8pF	±0.05pF	GRM1555C2A8R8WA01#
				±0.1pF	GRM1555C2A8R8BA01#
				±0.25pF	GRM1555C2A8R8CA01#
				±0.5pF	GRM1555C2A8R8DA01#
			8.9pF	±0.05pF	GRM1555C2A8R9WA01#
				±0.1pF	GRM1555C2A8R9BA01#
				±0.25pF	GRM1555C2A8R9CA01#
				±0.5pF	GRM1555C2A8R9DA01#
			9.0pF	±0.05pF	GRM1555C2A9R0WA01#
				±0.1pF	GRM1555C2A9R0BA01#
				±0.25pF	GRM1555C2A9R0CA01#
				±0.5pF	GRM1555C2A9R0DA01#
			9.1pF	±0.05pF	GRM1555C2A9R1WA01#
				±0.1pF	GRM1555C2A9R1BA01#
				±0.25pF	GRM1555C2A9R1CA01#
				±0.5pF	GRM1555C2A9R1DA01#
			9.2pF	±0.05pF	GRM1555C2A9R2WA01#
				±0.1pF	GRM1555C2A9R2BA01#
				±0.25pF	GRM1555C2A9R2CA01#
				±0.5pF	GRM1555C2A9R2DA01#
			9.3pF	±0.05pF	GRM1555C2A9R3WA01#
				±0.1pF	GRM1555C2A9R3BA01#
				±0.25pF	GRM1555C2A9R3CA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	9.3pF	±0.5pF	GRM1555C2A9R3DA01#
			9.4pF	±0.05pF	GRM1555C2A9R4WA01#
				±0.1pF	GRM1555C2A9R4BA01#
				±0.25pF	GRM1555C2A9R4CA01#
			9.5pF	±0.5pF	GRM1555C2A9R4DA01#
				±0.05pF	GRM1555C2A9R5WA01#
				±0.1pF	GRM1555C2A9R5BA01#
				±0.25pF	GRM1555C2A9R5CA01#
				±0.5pF	GRM1555C2A9R5DA01#
			9.6pF	±0.05pF	GRM1555C2A9R6WA01#
				±0.1pF	GRM1555C2A9R6BA01#
				±0.25pF	GRM1555C2A9R6CA01#
				±0.5pF	GRM1555C2A9R6DA01#
			9.7pF	±0.05pF	GRM1555C2A9R7WA01#
				±0.1pF	GRM1555C2A9R7BA01#
				±0.25pF	GRM1555C2A9R7CA01#
				±0.5pF	GRM1555C2A9R7DA01#
			9.8pF	±0.05pF	GRM1555C2A9R8WA01#
				±0.1pF	GRM1555C2A9R8BA01#
				±0.25pF	GRM1555C2A9R8CA01#
				±0.5pF	GRM1555C2A9R8DA01#
			9.9pF	±0.05pF	GRM1555C2A9R9WA01#
				±0.1pF	GRM1555C2A9R9BA01#
				±0.25pF	GRM1555C2A9R9CA01#
				±0.5pF	GRM1555C2A9R9DA01#
			10pF	±2%	GRM1555C2A100GA01#
				±5%	GRM1555C2A100JA01#
			12pF	±2%	GRM1555C2A120GA01#
				±5%	GRM1555C2A120JA01#
			15pF	±2%	GRM1555C2A150GA01#
				±5%	GRM1555C2A150JA01#
			18pF	±2%	GRM1555C2A180GA01#
				±5%	GRM1555C2A180JA01#
			22pF	±2%	GRM1555C2A220GA01#
				±5%	GRM1555C2A220JA01#
			27pF	±2%	GRM1555C2A270GA01#
				±5%	GRM1555C2A270JA01#
			33pF	±2%	GRM1555C2A330GA01#
				±5%	GRM1555C2A330JA01#
			39pF	±2%	GRM1555C2A390GA01#
				±5%	GRM1555C2A390JA01#
			47pF	±2%	GRM1555C2A470GA01#
				±5%	GRM1555C2A470JA01#
			56pF	±2%	GRM1555C2A560GA01#
				±5%	GRM1555C2A560JA01#
			68pF	±2%	GRM1555C2A680GA01#
				±5%	GRM1555C2A680JA01#
			82pF	±2%	GRM1555C2A820GA01#
				±5%	GRM1555C2A820JA01#
			100pF	±2%	GRM1555C2A101GA01#
				±5%	GRM1555C2A101JA01#
		CK	0.10pF	±0.05pF	GRM1554C2AR10WA01#
			0.20pF	±0.05pF	GRM1554C2AR20WA01#
				±0.1pF	GRM1554C2AR20BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	100Vdc	CK	0.30pF	±0.05pF	GRM1554C2AR30WA01#	0.55mm	100Vdc	CJ	2.3pF	±0.1pF	GRM1553C2A2R3BA01#	
				±0.1pF	GRM1554C2AR30BA01#					±0.25pF	GRM1553C2A2R3CA01#	
			0.40pF	±0.05pF	GRM1554C2AR40WA01#				2.4pF	±0.05pF	GRM1553C2A2R4WA01#	
				±0.1pF	GRM1554C2AR40BA01#					±0.1pF	GRM1553C2A2R4BA01#	
			0.50pF	±0.05pF	GRM1554C2AR50WA01#				2.5pF	±0.05pF	GRM1553C2A2R4CA01#	
				±0.1pF	GRM1554C2AR50BA01#					±0.25pF	GRM1553C2A2R5WA01#	
			0.60pF	±0.05pF	GRM1554C2AR60WA01#				2.6pF	±0.1pF	GRM1553C2A2R6BA01#	
				±0.1pF	GRM1554C2AR60BA01#					±0.25pF	GRM1553C2A2R5CA01#	
			0.70pF	±0.05pF	GRM1554C2AR70WA01#				2.7pF	±0.05pF	GRM1553C2A2R7WA01#	
				±0.1pF	GRM1554C2AR70BA01#					±0.1pF	GRM1553C2A2R7BA01#	
			0.80pF	±0.05pF	GRM1554C2AR80WA01#				2.8pF	±0.25pF	GRM1553C2A2R7CA01#	
				±0.1pF	GRM1554C2AR80BA01#					±0.05pF	GRM1553C2A2R8WA01#	
			0.90pF	±0.05pF	GRM1554C2AR90WA01#				2.9pF	±0.1pF	GRM1553C2A2R8BA01#	
				±0.1pF	GRM1554C2AR90BA01#					±0.25pF	GRM1553C2A2R8CA01#	
			1.0pF	±0.05pF	GRM1554C2A1R0WA01#				3.0pF	±0.05pF	GRM1553C2A3R0WA01#	
				±0.1pF	GRM1554C2A1R0BA01#					±0.1pF	GRM1553C2A3R0BA01#	
				±0.25pF	GRM1554C2A1R0CA01#					±0.25pF	GRM1553C2A3R0CA01#	
			1.1pF	±0.05pF	GRM1554C2A1R1WA01#				3.1pF	±0.05pF	GRM1553C2A3R1WA01#	
				±0.1pF	GRM1554C2A1R1BA01#					±0.1pF	GRM1553C2A3R1BA01#	
				±0.25pF	GRM1554C2A1R1CA01#					±0.25pF	GRM1553C2A3R1CA01#	
			1.2pF	±0.05pF	GRM1554C2A1R2WA01#				3.2pF	±0.05pF	GRM1553C2A3R2WA01#	
				±0.1pF	GRM1554C2A1R2BA01#					±0.1pF	GRM1553C2A3R2BA01#	
				±0.25pF	GRM1554C2A1R2CA01#					±0.25pF	GRM1553C2A3R2CA01#	
			1.3pF	±0.05pF	GRM1554C2A1R3WA01#				3.3pF	±0.05pF	GRM1553C2A3R3WA01#	
				±0.1pF	GRM1554C2A1R3BA01#					±0.1pF	GRM1553C2A3R3BA01#	
				±0.25pF	GRM1554C2A1R3CA01#					±0.25pF	GRM1553C2A3R3CA01#	
			1.4pF	±0.05pF	GRM1554C2A1R4WA01#				3.4pF	±0.05pF	GRM1553C2A3R4WA01#	
				±0.1pF	GRM1554C2A1R4BA01#					±0.1pF	GRM1553C2A3R4BA01#	
				±0.25pF	GRM1554C2A1R4CA01#					±0.25pF	GRM1553C2A3R4CA01#	
			1.5pF	±0.05pF	GRM1554C2A1R5WA01#				3.5pF	±0.05pF	GRM1553C2A3R5WA01#	
				±0.1pF	GRM1554C2A1R5BA01#					±0.1pF	GRM1553C2A3R5BA01#	
				±0.25pF	GRM1554C2A1R5CA01#					±0.25pF	GRM1553C2A3R5CA01#	
			1.6pF	±0.05pF	GRM1554C2A1R6WA01#				3.6pF	±0.05pF	GRM1553C2A3R6WA01#	
				±0.1pF	GRM1554C2A1R6BA01#					±0.1pF	GRM1553C2A3R6BA01#	
				±0.25pF	GRM1554C2A1R6CA01#					±0.25pF	GRM1553C2A3R6CA01#	
			1.7pF	±0.05pF	GRM1554C2A1R7WA01#				3.7pF	±0.05pF	GRM1553C2A3R7WA01#	
				±0.1pF	GRM1554C2A1R7BA01#					±0.1pF	GRM1553C2A3R7BA01#	
				±0.25pF	GRM1554C2A1R7CA01#					±0.25pF	GRM1553C2A3R7CA01#	
			1.8pF	±0.05pF	GRM1554C2A1R8WA01#				3.8pF	±0.05pF	GRM1553C2A3R8WA01#	
				±0.1pF	GRM1554C2A1R8BA01#					±0.1pF	GRM1553C2A3R8BA01#	
				±0.25pF	GRM1554C2A1R8CA01#					±0.25pF	GRM1553C2A3R8CA01#	
			1.9pF	±0.05pF	GRM1554C2A1R9WA01#				3.9pF	±0.05pF	GRM1553C2A3R9WA01#	
				±0.1pF	GRM1554C2A1R9BA01#					±0.1pF	GRM1553C2A3R9BA01#	
				±0.25pF	GRM1554C2A1R9CA01#					±0.25pF	GRM1553C2A3R9CA01#	
			2.0pF	±0.05pF	GRM1554C2A2R0WA01#				CH	4.0pF	±0.05pF	GRM1552C2A4R0WA01#
				±0.1pF	GRM1554C2A2R0BA01#					±0.1pF	GRM1552C2A4R0BA01#	
				±0.25pF	GRM1554C2A2R0CA01#					±0.25pF	GRM1552C2A4R0CA01#	
		CJ	2.1pF	±0.05pF	GRM1553C2A2R1WA01#				4.1pF	±0.05pF	GRM1552C2A4R1WA01#	
				±0.1pF	GRM1553C2A2R1BA01#					±0.1pF	GRM1552C2A4R1BA01#	
				±0.25pF	GRM1553C2A2R1CA01#					±0.25pF	GRM1552C2A4R1CA01#	
		2.2pF	2.2pF	±0.05pF	GRM1553C2A2R2WA01#				CH	4.0pF	±0.05pF	GRM1552C2A4R0WA01#
				±0.1pF	GRM1553C2A2R2BA01#					±0.1pF	GRM1552C2A4R0BA01#	
				±0.25pF	GRM1553C2A2R2CA01#					±0.25pF	GRM1552C2A4R0CA01#	
		2.3pF	2.3pF	±0.05pF	GRM1553C2A2R3WA01#				4.1pF	±0.05pF	GRM1552C2A4R1WA01#	
				±0.1pF	GRM1553C2A2R3BA01#					±0.1pF	GRM1552C2A4R1BA01#	
				±0.25pF	GRM1553C2A2R3CA01#					±0.25pF	GRM1552C2A4R1CA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	CH	4.1pF	±0.1pF	GRM1552C2A4R1BA01#
				±0.25pF	GRM1552C2A4R1CA01#
			4.2pF	±0.05pF	GRM1552C2A4R2WA01#
				±0.1pF	GRM1552C2A4R2BA01#
				±0.25pF	GRM1552C2A4R2CA01#
			4.3pF	±0.05pF	GRM1552C2A4R3WA01#
				±0.1pF	GRM1552C2A4R3BA01#
				±0.25pF	GRM1552C2A4R3CA01#
			4.4pF	±0.05pF	GRM1552C2A4R4WA01#
				±0.1pF	GRM1552C2A4R4BA01#
				±0.25pF	GRM1552C2A4R4CA01#
			4.5pF	±0.05pF	GRM1552C2A4R5WA01#
				±0.1pF	GRM1552C2A4R5BA01#
				±0.25pF	GRM1552C2A4R5CA01#
			4.6pF	±0.05pF	GRM1552C2A4R6WA01#
				±0.1pF	GRM1552C2A4R6BA01#
				±0.25pF	GRM1552C2A4R6CA01#
			4.7pF	±0.05pF	GRM1552C2A4R7WA01#
				±0.1pF	GRM1552C2A4R7BA01#
				±0.25pF	GRM1552C2A4R7CA01#
			4.8pF	±0.05pF	GRM1552C2A4R8WA01#
				±0.1pF	GRM1552C2A4R8BA01#
				±0.25pF	GRM1552C2A4R8CA01#
			4.9pF	±0.05pF	GRM1552C2A4R9WA01#
				±0.1pF	GRM1552C2A4R9BA01#
				±0.25pF	GRM1552C2A4R9CA01#
			5.0pF	±0.05pF	GRM1552C2A5R0WA01#
				±0.1pF	GRM1552C2A5R0BA01#
				±0.25pF	GRM1552C2A5R0CA01#
			5.1pF	±0.05pF	GRM1552C2A5R1WA01#
				±0.1pF	GRM1552C2A5R1BA01#
				±0.25pF	GRM1552C2A5R1CA01#
				±0.5pF	GRM1552C2A5R1DA01#
			5.2pF	±0.05pF	GRM1552C2A5R2WA01#
				±0.1pF	GRM1552C2A5R2BA01#
				±0.25pF	GRM1552C2A5R2CA01#
				±0.5pF	GRM1552C2A5R2DA01#
			5.3pF	±0.05pF	GRM1552C2A5R3WA01#
				±0.1pF	GRM1552C2A5R3BA01#
				±0.25pF	GRM1552C2A5R3CA01#
				±0.5pF	GRM1552C2A5R3DA01#
			5.4pF	±0.05pF	GRM1552C2A5R4WA01#
				±0.1pF	GRM1552C2A5R4BA01#
				±0.25pF	GRM1552C2A5R4CA01#
				±0.5pF	GRM1552C2A5R4DA01#
			5.5pF	±0.05pF	GRM1552C2A5R5WA01#
				±0.1pF	GRM1552C2A5R5BA01#
				±0.25pF	GRM1552C2A5R5CA01#
				±0.5pF	GRM1552C2A5R5DA01#
			5.6pF	±0.05pF	GRM1552C2A5R6WA01#
				±0.1pF	GRM1552C2A5R6BA01#
				±0.25pF	GRM1552C2A5R6CA01#
				±0.5pF	GRM1552C2A5R6DA01#
			5.7pF	±0.05pF	GRM1552C2A5R7WA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	CH	5.7pF	±0.1pF	GRM1552C2A5R7BA01#
				±0.25pF	GRM1552C2A5R7CA01#
			5.8pF	±0.05pF	GRM1552C2A5R8WA01#
				±0.1pF	GRM1552C2A5R8BA01#
				±0.25pF	GRM1552C2A5R8CA01#
			5.9pF	±0.05pF	GRM1552C2A5R9WA01#
				±0.1pF	GRM1552C2A5R9BA01#
				±0.25pF	GRM1552C2A5R9CA01#
			6.0pF	±0.05pF	GRM1552C2A6R0WA01#
				±0.1pF	GRM1552C2A6R0BA01#
				±0.25pF	GRM1552C2A6R0CA01#
				±0.5pF	GRM1552C2A6R0DA01#
			6.1pF	±0.05pF	GRM1552C2A6R1WA01#
				±0.1pF	GRM1552C2A6R1BA01#
				±0.25pF	GRM1552C2A6R1CA01#
			6.2pF	±0.05pF	GRM1552C2A6R2WA01#
				±0.1pF	GRM1552C2A6R2BA01#
				±0.25pF	GRM1552C2A6R2CA01#
				±0.5pF	GRM1552C2A6R2DA01#
			6.3pF	±0.05pF	GRM1552C2A6R3WA01#
				±0.1pF	GRM1552C2A6R3BA01#
				±0.25pF	GRM1552C2A6R3CA01#
				±0.5pF	GRM1552C2A6R3DA01#
			6.4pF	±0.05pF	GRM1552C2A6R4WA01#
				±0.1pF	GRM1552C2A6R4BA01#
				±0.25pF	GRM1552C2A6R4CA01#
				±0.5pF	GRM1552C2A6R4DA01#
			6.5pF	±0.05pF	GRM1552C2A6R5WA01#
				±0.1pF	GRM1552C2A6R5BA01#
				±0.25pF	GRM1552C2A6R5CA01#
				±0.5pF	GRM1552C2A6R5DA01#
			6.6pF	±0.05pF	GRM1552C2A6R6WA01#
				±0.1pF	GRM1552C2A6R6BA01#
				±0.25pF	GRM1552C2A6R6CA01#
				±0.5pF	GRM1552C2A6R6DA01#
			6.7pF	±0.05pF	GRM1552C2A6R7WA01#
				±0.1pF	GRM1552C2A6R7BA01#
				±0.25pF	GRM1552C2A6R7CA01#
			6.8pF	±0.05pF	GRM1552C2A6R8WA01#
				±0.1pF	GRM1552C2A6R8BA01#
				±0.25pF	GRM1552C2A6R8CA01#
			6.9pF	±0.05pF	GRM1552C2A6R9WA01#
				±0.1pF	GRM1552C2A6R9BA01#
				±0.25pF	GRM1552C2A6R9CA01#
			7.0pF	±0.05pF	GRM1552C2A7R0WA01#
				±0.1pF	GRM1552C2A7R0BA01#
				±0.25pF	GRM1552C2A7R0CA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	CH	7.0pF	±0.5pF	GRM1552C2A7R0DA01#	0.55mm	100Vdc	CH	8.4pF	±0.1pF	GRM1552C2A8R4BA01#
			7.1pF	±0.05pF	GRM1552C2A7R1WA01#				8.4pF	±0.25pF	GRM1552C2A8R4CA01#
				±0.1pF	GRM1552C2A7R1BA01#				8.4pF	±0.5pF	GRM1552C2A8R4DA01#
				±0.25pF	GRM1552C2A7R1CA01#				8.5pF	±0.05pF	GRM1552C2A8R5WA01#
				±0.5pF	GRM1552C2A7R1DA01#				8.5pF	±0.1pF	GRM1552C2A8R5BA01#
			7.2pF	±0.05pF	GRM1552C2A7R2WA01#				8.5pF	±0.25pF	GRM1552C2A8R5CA01#
				±0.1pF	GRM1552C2A7R2BA01#				8.5pF	±0.5pF	GRM1552C2A8R5DA01#
				±0.25pF	GRM1552C2A7R2CA01#				8.6pF	±0.05pF	GRM1552C2A8R6WA01#
				±0.5pF	GRM1552C2A7R2DA01#				8.6pF	±0.1pF	GRM1552C2A8R6BA01#
			7.3pF	±0.05pF	GRM1552C2A7R3WA01#				8.6pF	±0.25pF	GRM1552C2A8R6CA01#
				±0.1pF	GRM1552C2A7R3BA01#				8.6pF	±0.5pF	GRM1552C2A8R6DA01#
				±0.25pF	GRM1552C2A7R3CA01#				8.7pF	±0.05pF	GRM1552C2A8R7WA01#
				±0.5pF	GRM1552C2A7R3DA01#				8.7pF	±0.1pF	GRM1552C2A8R7BA01#
			7.4pF	±0.05pF	GRM1552C2A7R4WA01#				8.7pF	±0.25pF	GRM1552C2A8R7CA01#
				±0.1pF	GRM1552C2A7R4BA01#				8.7pF	±0.5pF	GRM1552C2A8R7DA01#
				±0.25pF	GRM1552C2A7R4CA01#				8.8pF	±0.05pF	GRM1552C2A8R8WA01#
				±0.5pF	GRM1552C2A7R4DA01#				8.8pF	±0.1pF	GRM1552C2A8R8BA01#
			7.5pF	±0.05pF	GRM1552C2A7R5WA01#				8.8pF	±0.25pF	GRM1552C2A8R8CA01#
				±0.1pF	GRM1552C2A7R5BA01#				8.8pF	±0.5pF	GRM1552C2A8R8DA01#
				±0.25pF	GRM1552C2A7R5CA01#				8.9pF	±0.05pF	GRM1552C2A8R9WA01#
				±0.5pF	GRM1552C2A7R5DA01#				8.9pF	±0.1pF	GRM1552C2A8R9BA01#
			7.6pF	±0.05pF	GRM1552C2A7R6WA01#				8.9pF	±0.25pF	GRM1552C2A8R9CA01#
				±0.1pF	GRM1552C2A7R6BA01#				8.9pF	±0.5pF	GRM1552C2A8R9DA01#
				±0.25pF	GRM1552C2A7R6CA01#				9.0pF	±0.05pF	GRM1552C2A9R0WA01#
				±0.5pF	GRM1552C2A7R6DA01#				9.0pF	±0.1pF	GRM1552C2A9R0BA01#
			7.7pF	±0.05pF	GRM1552C2A7R7WA01#				9.0pF	±0.25pF	GRM1552C2A9R0CA01#
				±0.1pF	GRM1552C2A7R7BA01#				9.0pF	±0.5pF	GRM1552C2A9R0DA01#
				±0.25pF	GRM1552C2A7R7CA01#				9.1pF	±0.05pF	GRM1552C2A9R1WA01#
				±0.5pF	GRM1552C2A7R7DA01#				9.1pF	±0.1pF	GRM1552C2A9R1BA01#
			7.8pF	±0.05pF	GRM1552C2A7R8WA01#				9.1pF	±0.25pF	GRM1552C2A9R1CA01#
				±0.1pF	GRM1552C2A7R8BA01#				9.1pF	±0.5pF	GRM1552C2A9R1DA01#
				±0.25pF	GRM1552C2A7R8CA01#				9.2pF	±0.05pF	GRM1552C2A9R2WA01#
				±0.5pF	GRM1552C2A7R8DA01#				9.2pF	±0.1pF	GRM1552C2A9R2BA01#
			7.9pF	±0.05pF	GRM1552C2A7R9WA01#				9.2pF	±0.25pF	GRM1552C2A9R2CA01#
				±0.1pF	GRM1552C2A7R9BA01#				9.2pF	±0.5pF	GRM1552C2A9R2DA01#
				±0.25pF	GRM1552C2A7R9CA01#				9.3pF	±0.05pF	GRM1552C2A9R3WA01#
				±0.5pF	GRM1552C2A7R9DA01#				9.3pF	±0.1pF	GRM1552C2A9R3BA01#
			8.0pF	±0.05pF	GRM1552C2A8R0WA01#				9.3pF	±0.25pF	GRM1552C2A9R3CA01#
				±0.1pF	GRM1552C2A8R0BA01#				9.3pF	±0.5pF	GRM1552C2A9R3DA01#
				±0.25pF	GRM1552C2A8R0CA01#				9.4pF	±0.05pF	GRM1552C2A9R4WA01#
				±0.5pF	GRM1552C2A8R0DA01#				9.4pF	±0.1pF	GRM1552C2A9R4BA01#
			8.1pF	±0.05pF	GRM1552C2A8R1WA01#				9.4pF	±0.25pF	GRM1552C2A9R4CA01#
				±0.1pF	GRM1552C2A8R1BA01#				9.4pF	±0.5pF	GRM1552C2A9R4DA01#
				±0.25pF	GRM1552C2A8R1CA01#				9.5pF	±0.05pF	GRM1552C2A9R5WA01#
				±0.5pF	GRM1552C2A8R1DA01#				9.5pF	±0.1pF	GRM1552C2A9R5BA01#
			8.2pF	±0.05pF	GRM1552C2A8R2WA01#				9.5pF	±0.25pF	GRM1552C2A9R5CA01#
				±0.1pF	GRM1552C2A8R2BA01#				9.5pF	±0.5pF	GRM1552C2A9R5DA01#
				±0.25pF	GRM1552C2A8R2CA01#				9.6pF	±0.05pF	GRM1552C2A9R6WA01#
				±0.5pF	GRM1552C2A8R2DA01#				9.6pF	±0.1pF	GRM1552C2A9R6BA01#
			8.3pF	±0.05pF	GRM1552C2A8R3WA01#				9.6pF	±0.25pF	GRM1552C2A9R6CA01#
				±0.1pF	GRM1552C2A8R3BA01#				9.6pF	±0.5pF	GRM1552C2A9R6DA01#
				±0.25pF	GRM1552C2A8R3CA01#				9.7pF	±0.05pF	GRM1552C2A9R7WA01#
				±0.5pF	GRM1552C2A8R3DA01#				9.7pF	±0.1pF	GRM1552C2A9R7BA01#
			8.4pF	±0.05pF	GRM1552C2A8R4WA01#				9.7pF	±0.25pF	GRM1552C2A9R7CA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	CH	9.7pF	±0.5pF	GRM1552C2A9R7DA01#	0.55mm	50Vdc	COG	1.0pF	±0.25pF	GRM1555C1H1R0CA01#
			9.8pF	±0.05pF	GRM1552C2A9R8WA01#				1.1pF	±0.05pF	GRM1555C1H1R1WA01#
				±0.1pF	GRM1552C2A9R8BA01#					±0.1pF	GRM1555C1H1R1BA01#
				±0.25pF	GRM1552C2A9R8CA01#					±0.25pF	GRM1555C1H1R1CA01#
				±0.5pF	GRM1552C2A9R8DA01#				1.2pF	±0.05pF	GRM1555C1H1R2WA01#
			9.9pF	±0.05pF	GRM1552C2A9R9WA01#					±0.1pF	GRM1555C1H1R2BA01#
				±0.1pF	GRM1552C2A9R9BA01#					±0.25pF	GRM1555C1H1R2CA01#
				±0.25pF	GRM1552C2A9R9CA01#				1.3pF	±0.05pF	GRM1555C1H1R3WA01#
				±0.5pF	GRM1552C2A9R9DA01#					±0.1pF	GRM1555C1H1R3BA01#
			10pF	±2%	GRM1552C2A100GA01#					±0.25pF	GRM1555C1H1R3CA01#
				±5%	GRM1552C2A100JA01#				1.4pF	±0.05pF	GRM1555C1H1R4WA01#
			12pF	±2%	GRM1552C2A120GA01#					±0.1pF	GRM1555C1H1R4BA01#
				±5%	GRM1552C2A120JA01#					±0.25pF	GRM1555C1H1R4CA01#
			15pF	±2%	GRM1552C2A150GA01#				1.5pF	±0.05pF	GRM1555C1H1R5WA01#
				±5%	GRM1552C2A150JA01#					±0.1pF	GRM1555C1H1R5BA01#
			18pF	±2%	GRM1552C2A180GA01#					±0.25pF	GRM1555C1H1R5CA01#
				±5%	GRM1552C2A180JA01#				1.6pF	±0.05pF	GRM1555C1H1R6WA01#
			22pF	±2%	GRM1552C2A220GA01#					±0.1pF	GRM1555C1H1R6BA01#
				±5%	GRM1552C2A220JA01#					±0.25pF	GRM1555C1H1R6CA01#
			27pF	±2%	GRM1552C2A270GA01#				1.7pF	±0.05pF	GRM1555C1H1R7WA01#
				±5%	GRM1552C2A270JA01#					±0.1pF	GRM1555C1H1R7BA01#
			33pF	±2%	GRM1552C2A330GA01#					±0.25pF	GRM1555C1H1R7CA01#
				±5%	GRM1552C2A330JA01#				1.8pF	±0.05pF	GRM1555C1H1R8WA01#
			39pF	±2%	GRM1552C2A390GA01#					±0.1pF	GRM1555C1H1R8BA01#
				±5%	GRM1552C2A390JA01#					±0.25pF	GRM1555C1H1R8CA01#
			47pF	±2%	GRM1552C2A470GA01#				1.9pF	±0.05pF	GRM1555C1H1R9WA01#
				±5%	GRM1552C2A470JA01#					±0.1pF	GRM1555C1H1R9BA01#
			56pF	±2%	GRM1552C2A560GA01#					±0.25pF	GRM1555C1H1R9CA01#
				±5%	GRM1552C2A560JA01#				2.0pF	±0.05pF	GRM1555C1H2R0WA01#
			68pF	±2%	GRM1552C2A680GA01#					±0.1pF	GRM1555C1H2R0BA01#
				±5%	GRM1552C2A680JA01#					±0.25pF	GRM1555C1H2R0CA01#
			82pF	±2%	GRM1552C2A820GA01#				2.1pF	±0.05pF	GRM1555C1H2R1WA01#
				±5%	GRM1552C2A820JA01#					±0.1pF	GRM1555C1H2R1BA01#
			100pF	±2%	GRM1552C2A101GA01#					±0.25pF	GRM1555C1H2R1CA01#
				±5%	GRM1552C2A101JA01#				2.2pF	±0.05pF	GRM1555C1H2R2WA01#
	50Vdc	COG	0.10pF	±0.05pF	GRM1555C1HR10WA01#					±0.1pF	GRM1555C1H2R2BA01#
			0.20pF	±0.05pF	GRM1555C1HR20WA01#					±0.25pF	GRM1555C1H2R2CA01#
				±0.1pF	GRM1555C1HR20BA01#				2.3pF	±0.05pF	GRM1555C1H2R3WA01#
			0.30pF	±0.05pF	GRM1555C1HR30WA01#					±0.1pF	GRM1555C1H2R3BA01#
				±0.1pF	GRM1555C1HR30BA01#					±0.25pF	GRM1555C1H2R3CA01#
			0.40pF	±0.05pF	GRM1555C1HR40WA01#				2.4pF	±0.05pF	GRM1555C1H2R4WA01#
				±0.1pF	GRM1555C1HR40BA01#					±0.1pF	GRM1555C1H2R4BA01#
			0.50pF	±0.05pF	GRM1555C1HR50WA01#					±0.25pF	GRM1555C1H2R4CA01#
				±0.1pF	GRM1555C1HR50BA01#				2.5pF	±0.05pF	GRM1555C1H2R5WA01#
			0.60pF	±0.05pF	GRM1555C1HR60WA01#					±0.1pF	GRM1555C1H2R5BA01#
				±0.1pF	GRM1555C1HR60BA01#					±0.25pF	GRM1555C1H2R5CA01#
			0.70pF	±0.05pF	GRM1555C1HR70WA01#				2.6pF	±0.05pF	GRM1555C1H2R6WA01#
				±0.1pF	GRM1555C1HR70BA01#					±0.1pF	GRM1555C1H2R6BA01#
			0.80pF	±0.05pF	GRM1555C1HR80WA01#					±0.25pF	GRM1555C1H2R6CA01#
				±0.1pF	GRM1555C1HR80BA01#				2.7pF	±0.05pF	GRM1555C1H2R7WA01#
			0.90pF	±0.05pF	GRM1555C1HR90WA01#					±0.1pF	GRM1555C1H2R7BA01#
				±0.1pF	GRM1555C1HR90BA01#					±0.25pF	GRM1555C1H2R7CA01#
			1.0pF	±0.05pF	GRM1555C1H1R0WA01#				2.8pF	±0.05pF	GRM1555C1H2R8WA01#
				±0.1pF	GRM1555C1H1R0BA01#					±0.1pF	GRM1555C1H2R8BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	2.8pF	±0.25pF	GRM1555C1H2R8CA01#	0.55mm	50Vdc	COG	4.6pF	±0.25pF	GRM1555C1H4R6CA01#
			2.9pF	±0.05pF	GRM1555C1H2R9WA01#				4.7pF	±0.05pF	GRM1555C1H4R7WA01#
				±0.1pF	GRM1555C1H2R9BA01#					±0.1pF	GRM1555C1H4R7BA01#
				±0.25pF	GRM1555C1H2R9CA01#					±0.25pF	GRM1555C1H4R7CA01#
			3.0pF	±0.05pF	GRM1555C1H3R0WA01#				4.8pF	±0.05pF	GRM1555C1H4R8WA01#
				±0.1pF	GRM1555C1H3R0BA01#					±0.1pF	GRM1555C1H4R8BA01#
				±0.25pF	GRM1555C1H3R0CA01#					±0.25pF	GRM1555C1H4R8CA01#
			3.1pF	±0.05pF	GRM1555C1H3R1WA01#				4.9pF	±0.05pF	GRM1555C1H4R9WA01#
				±0.1pF	GRM1555C1H3R1BA01#					±0.1pF	GRM1555C1H4R9BA01#
				±0.25pF	GRM1555C1H3R1CA01#					±0.25pF	GRM1555C1H4R9CA01#
			3.2pF	±0.05pF	GRM1555C1H3R2WA01#				5.0pF	±0.05pF	GRM1555C1H5R0WA01#
				±0.1pF	GRM1555C1H3R2BA01#					±0.1pF	GRM1555C1H5R0BA01#
				±0.25pF	GRM1555C1H3R2CA01#					±0.25pF	GRM1555C1H5R0CA01#
			3.3pF	±0.05pF	GRM1555C1H3R3WA01#				5.1pF	±0.05pF	GRM1555C1H5R1WA01#
				±0.1pF	GRM1555C1H3R3BA01#					±0.1pF	GRM1555C1H5R1BA01#
				±0.25pF	GRM1555C1H3R3CA01#					±0.25pF	GRM1555C1H5R1CA01#
			3.4pF	±0.05pF	GRM1555C1H3R4WA01#					±0.5pF	GRM1555C1H5R1DA01#
				±0.1pF	GRM1555C1H3R4BA01#				5.2pF	±0.05pF	GRM1555C1H5R2WA01#
				±0.25pF	GRM1555C1H3R4CA01#					±0.1pF	GRM1555C1H5R2BA01#
			3.5pF	±0.05pF	GRM1555C1H3R5WA01#					±0.25pF	GRM1555C1H5R2CA01#
				±0.1pF	GRM1555C1H3R5BA01#					±0.5pF	GRM1555C1H5R2DA01#
				±0.25pF	GRM1555C1H3R5CA01#				5.3pF	±0.05pF	GRM1555C1H5R3WA01#
			3.6pF	±0.05pF	GRM1555C1H3R6WA01#					±0.1pF	GRM1555C1H5R3BA01#
				±0.1pF	GRM1555C1H3R6BA01#					±0.25pF	GRM1555C1H5R3CA01#
				±0.25pF	GRM1555C1H3R6CA01#					±0.5pF	GRM1555C1H5R3DA01#
			3.7pF	±0.05pF	GRM1555C1H3R7WA01#				5.4pF	±0.05pF	GRM1555C1H5R4WA01#
				±0.1pF	GRM1555C1H3R7BA01#					±0.1pF	GRM1555C1H5R4BA01#
				±0.25pF	GRM1555C1H3R7CA01#					±0.25pF	GRM1555C1H5R4CA01#
			3.8pF	±0.05pF	GRM1555C1H3R8WA01#					±0.5pF	GRM1555C1H5R4DA01#
				±0.1pF	GRM1555C1H3R8BA01#				5.5pF	±0.05pF	GRM1555C1H5R5WA01#
				±0.25pF	GRM1555C1H3R8CA01#					±0.1pF	GRM1555C1H5R5BA01#
			3.9pF	±0.05pF	GRM1555C1H3R9WA01#					±0.25pF	GRM1555C1H5R5CA01#
				±0.1pF	GRM1555C1H3R9BA01#					±0.5pF	GRM1555C1H5R5DA01#
				±0.25pF	GRM1555C1H3R9CA01#				5.6pF	±0.05pF	GRM1555C1H5R6WA01#
			4.0pF	±0.05pF	GRM1555C1H4R0WA01#					±0.1pF	GRM1555C1H5R6BA01#
				±0.1pF	GRM1555C1H4R0BA01#					±0.25pF	GRM1555C1H5R6CA01#
				±0.25pF	GRM1555C1H4R0CA01#					±0.5pF	GRM1555C1H5R6DA01#
			4.1pF	±0.05pF	GRM1555C1H4R1WA01#				5.7pF	±0.05pF	GRM1555C1H5R7WA01#
				±0.1pF	GRM1555C1H4R1BA01#					±0.1pF	GRM1555C1H5R7BA01#
				±0.25pF	GRM1555C1H4R1CA01#					±0.25pF	GRM1555C1H5R7CA01#
			4.2pF	±0.05pF	GRM1555C1H4R2WA01#					±0.5pF	GRM1555C1H5R7DA01#
				±0.1pF	GRM1555C1H4R2BA01#				5.8pF	±0.05pF	GRM1555C1H5R8WA01#
				±0.25pF	GRM1555C1H4R2CA01#					±0.1pF	GRM1555C1H5R8BA01#
			4.3pF	±0.05pF	GRM1555C1H4R3WA01#					±0.25pF	GRM1555C1H5R8CA01#
				±0.1pF	GRM1555C1H4R3BA01#					±0.5pF	GRM1555C1H5R8DA01#
				±0.25pF	GRM1555C1H4R3CA01#				5.9pF	±0.05pF	GRM1555C1H5R9WA01#
			4.4pF	±0.05pF	GRM1555C1H4R4WA01#					±0.1pF	GRM1555C1H5R9BA01#
				±0.1pF	GRM1555C1H4R4BA01#					±0.25pF	GRM1555C1H5R9CA01#
				±0.25pF	GRM1555C1H4R4CA01#					±0.5pF	GRM1555C1H5R9DA01#
			4.5pF	±0.05pF	GRM1555C1H4R5WA01#				6.0pF	±0.05pF	GRM1555C1H6R0WA01#
				±0.1pF	GRM1555C1H4R5BA01#					±0.1pF	GRM1555C1H6R0BA01#
				±0.25pF	GRM1555C1H4R5CA01#					±0.25pF	GRM1555C1H6R0CA01#
			4.6pF	±0.05pF	GRM1555C1H4R6WA01#					±0.5pF	GRM1555C1H6R0DA01#
				±0.1pF	GRM1555C1H4R6BA01#					±0.05pF	GRM1555C1H6R1WA01#

Part number # indicates the package specification code.

GRM Series GJM Series GMA Series GMD Series GQM Series GRJ Series GR3 Series LLR Series LLA Series LLL Series LLM Series LLR Series KRM Series NFM Series KR3 Series GCH Series Notice

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	6.1pF	±0.1pF	GRM1555C1H6R1BA01#	0.55mm	50Vdc	COG	7.4pF	±0.5pF	GRM1555C1H7R4DA01#
				±0.25pF	GRM1555C1H6R1CA01#				7.5pF	±0.05pF	GRM1555C1H7R5WA01#
				±0.5pF	GRM1555C1H6R1DA01#					±0.1pF	GRM1555C1H7R5BA01#
			6.2pF	±0.05pF	GRM1555C1H6R2WA01#					±0.25pF	GRM1555C1H7R5CA01#
				±0.1pF	GRM1555C1H6R2BA01#					±0.5pF	GRM1555C1H7R5DA01#
				±0.25pF	GRM1555C1H6R2CA01#				7.6pF	±0.05pF	GRM1555C1H7R6WA01#
				±0.5pF	GRM1555C1H6R2DA01#					±0.1pF	GRM1555C1H7R6BA01#
			6.3pF	±0.05pF	GRM1555C1H6R3WA01#					±0.25pF	GRM1555C1H7R6CA01#
				±0.1pF	GRM1555C1H6R3BA01#					±0.5pF	GRM1555C1H7R6DA01#
				±0.25pF	GRM1555C1H6R3CA01#				7.7pF	±0.05pF	GRM1555C1H7R7WA01#
				±0.5pF	GRM1555C1H6R3DA01#					±0.1pF	GRM1555C1H7R7BA01#
			6.4pF	±0.05pF	GRM1555C1H6R4WA01#					±0.25pF	GRM1555C1H7R7CA01#
				±0.1pF	GRM1555C1H6R4BA01#					±0.5pF	GRM1555C1H7R7DA01#
				±0.25pF	GRM1555C1H6R4CA01#				7.8pF	±0.05pF	GRM1555C1H7R8WA01#
				±0.5pF	GRM1555C1H6R4DA01#					±0.1pF	GRM1555C1H7R8BA01#
			6.5pF	±0.05pF	GRM1555C1H6R5WA01#					±0.25pF	GRM1555C1H7R8CA01#
				±0.1pF	GRM1555C1H6R5BA01#					±0.5pF	GRM1555C1H7R8DA01#
				±0.25pF	GRM1555C1H6R5CA01#				7.9pF	±0.05pF	GRM1555C1H7R9WA01#
				±0.5pF	GRM1555C1H6R5DA01#					±0.1pF	GRM1555C1H7R9BA01#
			6.6pF	±0.05pF	GRM1555C1H6R6WA01#					±0.25pF	GRM1555C1H7R9CA01#
				±0.1pF	GRM1555C1H6R6BA01#					±0.5pF	GRM1555C1H7R9DA01#
				±0.25pF	GRM1555C1H6R6CA01#				8.0pF	±0.05pF	GRM1555C1H8R0WA01#
				±0.5pF	GRM1555C1H6R6DA01#					±0.1pF	GRM1555C1H8R0BA01#
			6.7pF	±0.05pF	GRM1555C1H6R7WA01#					±0.25pF	GRM1555C1H8R0CA01#
				±0.1pF	GRM1555C1H6R7BA01#					±0.5pF	GRM1555C1H8R0DA01#
				±0.25pF	GRM1555C1H6R7CA01#				8.1pF	±0.05pF	GRM1555C1H8R1WA01#
				±0.5pF	GRM1555C1H6R7DA01#					±0.1pF	GRM1555C1H8R1BA01#
			6.8pF	±0.05pF	GRM1555C1H6R8WA01#					±0.25pF	GRM1555C1H8R1CA01#
				±0.1pF	GRM1555C1H6R8BA01#					±0.5pF	GRM1555C1H8R1DA01#
				±0.25pF	GRM1555C1H6R8CA01#				8.2pF	±0.05pF	GRM1555C1H8R2WA01#
				±0.5pF	GRM1555C1H6R8DA01#					±0.1pF	GRM1555C1H8R2BA01#
			6.9pF	±0.05pF	GRM1555C1H6R9WA01#					±0.25pF	GRM1555C1H8R2CA01#
				±0.1pF	GRM1555C1H6R9BA01#					±0.5pF	GRM1555C1H8R2DA01#
				±0.25pF	GRM1555C1H6R9CA01#				8.3pF	±0.05pF	GRM1555C1H8R3WA01#
				±0.5pF	GRM1555C1H6R9DA01#					±0.1pF	GRM1555C1H8R3BA01#
			7.0pF	±0.05pF	GRM1555C1H7R0WA01#					±0.25pF	GRM1555C1H8R3CA01#
				±0.1pF	GRM1555C1H7R0BA01#					±0.5pF	GRM1555C1H8R3DA01#
				±0.25pF	GRM1555C1H7R0CA01#				8.4pF	±0.05pF	GRM1555C1H8R4WA01#
				±0.5pF	GRM1555C1H7R0DA01#					±0.1pF	GRM1555C1H8R4BA01#
			7.1pF	±0.05pF	GRM1555C1H7R1WA01#					±0.25pF	GRM1555C1H8R4CA01#
				±0.1pF	GRM1555C1H7R1BA01#					±0.5pF	GRM1555C1H8R4DA01#
				±0.25pF	GRM1555C1H7R1CA01#				8.5pF	±0.05pF	GRM1555C1H8R5WA01#
				±0.5pF	GRM1555C1H7R1DA01#					±0.1pF	GRM1555C1H8R5BA01#
			7.2pF	±0.05pF	GRM1555C1H7R2WA01#					±0.25pF	GRM1555C1H8R5CA01#
				±0.1pF	GRM1555C1H7R2BA01#					±0.5pF	GRM1555C1H8R5DA01#
				±0.25pF	GRM1555C1H7R2CA01#				8.6pF	±0.05pF	GRM1555C1H8R6WA01#
				±0.5pF	GRM1555C1H7R2DA01#					±0.1pF	GRM1555C1H8R6BA01#
			7.3pF	±0.05pF	GRM1555C1H7R3WA01#					±0.25pF	GRM1555C1H8R6CA01#
				±0.1pF	GRM1555C1H7R3BA01#					±0.5pF	GRM1555C1H8R6DA01#
				±0.25pF	GRM1555C1H7R3CA01#				8.7pF	±0.05pF	GRM1555C1H8R7WA01#
				±0.5pF	GRM1555C1H7R3DA01#					±0.1pF	GRM1555C1H8R7BA01#
			7.4pF	±0.05pF	GRM1555C1H7R4WA01#					±0.25pF	GRM1555C1H8R7CA01#
				±0.1pF	GRM1555C1H7R4BA01#					±0.5pF	GRM1555C1H8R7DA01#
				±0.25pF	GRM1555C1H7R4CA01#				8.8pF	±0.05pF	GRM1555C1H8R8WA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	COG	8.8pF	±0.1pF	GRM1555C1H8R8BA01#	0.55mm	50Vdc	COG	18pF	±5%	GRM1555C1H180JA01#	
				±0.25pF	GRM1555C1H8R8CA01#				22pF	±2%	GRM1555C1H220GA01#	
				±0.5pF	GRM1555C1H8R8DA01#					±5%	GRM1555C1H220JA01#	
			8.9pF	±0.05pF	GRM1555C1H8R9WA01#				27pF	±2%	GRM1555C1H270GA01#	
				±0.1pF	GRM1555C1H8R9BA01#					±5%	GRM1555C1H270JA01#	
				±0.25pF	GRM1555C1H8R9CA01#				33pF	±2%	GRM1555C1H330GA01#	
				±0.5pF	GRM1555C1H8R9DA01#					±5%	GRM1555C1H330JA01#	
			9.0pF	±0.05pF	GRM1555C1H9R0WA01#				39pF	±2%	GRM1555C1H390GA01#	
				±0.1pF	GRM1555C1H9R0BA01#					±5%	GRM1555C1H390JA01#	
				±0.25pF	GRM1555C1H9R0CA01#				47pF	±2%	GRM1555C1H470GA01#	
				±0.5pF	GRM1555C1H9R0DA01#					±5%	GRM1555C1H470JA01#	
			9.1pF	±0.05pF	GRM1555C1H9R1WA01#				56pF	±2%	GRM1555C1H560GA01#	
				±0.1pF	GRM1555C1H9R1BA01#					±5%	GRM1555C1H560JA01#	
				±0.25pF	GRM1555C1H9R1CA01#				68pF	±2%	GRM1555C1H680GA01#	
				±0.5pF	GRM1555C1H9R1DA01#					±5%	GRM1555C1H680JA01#	
			9.2pF	±0.05pF	GRM1555C1H9R2WA01#				82pF	±2%	GRM1555C1H820GA01#	
				±0.1pF	GRM1555C1H9R2BA01#					±5%	GRM1555C1H820JA01#	
				±0.25pF	GRM1555C1H9R2CA01#				100pF	±2%	GRM1555C1H101GA01#	
				±0.5pF	GRM1555C1H9R2DA01#					±5%	GRM1555C1H101JA01#	
			9.3pF	±0.05pF	GRM1555C1H9R3WA01#				120pF	±2%	GRM1555C1H121GA01#	
				±0.1pF	GRM1555C1H9R3BA01#					±5%	GRM1555C1H121JA01#	
				±0.25pF	GRM1555C1H9R3CA01#				150pF	±2%	GRM1555C1H151GA01#	
				±0.5pF	GRM1555C1H9R3DA01#					±5%	GRM1555C1H151JA01#	
			9.4pF	±0.05pF	GRM1555C1H9R4WA01#				180pF	±2%	GRM1555C1H181GA01#	
				±0.1pF	GRM1555C1H9R4BA01#					±5%	GRM1555C1H181JA01#	
				±0.25pF	GRM1555C1H9R4CA01#				220pF	±2%	GRM1555C1H221GA01#	
				±0.5pF	GRM1555C1H9R4DA01#					±5%	GRM1555C1H221JA01#	
			9.5pF	±0.05pF	GRM1555C1H9R5WA01#				270pF	±2%	GRM1555C1H271GA01#	
				±0.1pF	GRM1555C1H9R5BA01#					±5%	GRM1555C1H271JA01#	
				±0.25pF	GRM1555C1H9R5CA01#				330pF	±2%	GRM1555C1H331GA01#	
				±0.5pF	GRM1555C1H9R5DA01#					±5%	GRM1555C1H331JA01#	
			9.6pF	±0.05pF	GRM1555C1H9R6WA01#				390pF	±2%	GRM1555C1H391GA01#	
				±0.1pF	GRM1555C1H9R6BA01#					±5%	GRM1555C1H391JA01#	
				±0.25pF	GRM1555C1H9R6CA01#				470pF	±2%	GRM1555C1H471GA01#	
				±0.5pF	GRM1555C1H9R6DA01#					±5%	GRM1555C1H471JA01#	
			9.7pF	±0.05pF	GRM1555C1H9R7WA01#				560pF	±2%	GRM1555C1H561GA01#	
				±0.1pF	GRM1555C1H9R7BA01#					±5%	GRM1555C1H561JA01#	
				±0.25pF	GRM1555C1H9R7CA01#				680pF	±2%	GRM1555C1H681GA01#	
				±0.5pF	GRM1555C1H9R7DA01#					±5%	GRM1555C1H681JA01#	
			9.8pF	±0.05pF	GRM1555C1H9R8WA01#				820pF	±2%	GRM1555C1H821GA01#	
				±0.1pF	GRM1555C1H9R8BA01#					±5%	GRM1555C1H821JA01#	
				±0.25pF	GRM1555C1H9R8CA01#				1000pF	±2%	GRM1555C1H102GA01#	
				±0.5pF	GRM1555C1H9R8DA01#					±5%	GRM1555C1H102JA01#	
			9.9pF	±0.05pF	GRM1555C1H9R9WA01#				CK	0.10pF	±0.05pF	GRM1554C1HR10WA01#
				±0.1pF	GRM1555C1H9R9BA01#					0.20pF	±0.05pF	GRM1554C1HR20WA01#
				±0.25pF	GRM1555C1H9R9CA01#						±0.1pF	GRM1554C1HR20BA01#
				±0.5pF	GRM1555C1H9R9DA01#				0.30pF	±0.05pF	GRM1554C1HR30WA01#	
			10pF	±2%	GRM1555C1H100GA01#					±0.1pF	GRM1554C1HR30BA01#	
				±5%	GRM1555C1H100JA01#				0.40pF	±0.05pF	GRM1554C1HR40WA01#	
			12pF	±2%	GRM1555C1H120GA01#					±0.1pF	GRM1554C1HR40BA01#	
				±5%	GRM1555C1H120JA01#				0.50pF	±0.05pF	GRM1554C1HR50WA01#	
			15pF	±2%	GRM1555C1H150GA01#					±0.1pF	GRM1554C1HR50BA01#	
				±5%	GRM1555C1H150JA01#				0.60pF	±0.05pF	GRM1554C1HR60WA01#	
			18pF	±2%	GRM1555C1H180GA01#					±0.1pF	GRM1554C1HR60BA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CK	0.70pF	±0.05pF	GRM1554C1HR70WA01#	0.55mm	50Vdc	CJ	2.6pF	±0.05pF	GRM1553C1H2R6WA01#
				±0.1pF	GRM1554C1HR70BA01#					±0.1pF	GRM1553C1H2R6BA01#
		0.80pF		±0.05pF	GRM1554C1HR80WA01#			2.7pF		±0.25pF	GRM1553C1H2R6CA01#
				±0.1pF	GRM1554C1HR80BA01#					±0.05pF	GRM1553C1H2R7WA01#
		0.90pF		±0.05pF	GRM1554C1HR90WA01#			2.8pF		±0.1pF	GRM1553C1H2R7BA01#
				±0.1pF	GRM1554C1HR90BA01#					±0.25pF	GRM1553C1H2R7CA01#
		1.0pF		±0.05pF	GRM1554C1H1R0WA01#			2.9pF		±0.05pF	GRM1553C1H2R8WA01#
				±0.1pF	GRM1554C1H1R0BA01#					±0.1pF	GRM1553C1H2R8BA01#
				±0.25pF	GRM1554C1H1R0CA01#					±0.25pF	GRM1553C1H2R8CA01#
		1.1pF		±0.05pF	GRM1554C1H1R1WA01#			3.0pF		±0.05pF	GRM1553C1H3R0WA01#
				±0.1pF	GRM1554C1H1R1BA01#					±0.1pF	GRM1553C1H3R0BA01#
				±0.25pF	GRM1554C1H1R1CA01#					±0.25pF	GRM1553C1H3R0CA01#
		1.2pF		±0.05pF	GRM1554C1H1R2WA01#			3.1pF		±0.05pF	GRM1553C1H3R1WA01#
				±0.1pF	GRM1554C1H1R2BA01#					±0.1pF	GRM1553C1H3R1BA01#
				±0.25pF	GRM1554C1H1R2CA01#					±0.25pF	GRM1553C1H3R1CA01#
		1.3pF		±0.05pF	GRM1554C1H1R3WA01#			3.2pF		±0.05pF	GRM1553C1H3R2WA01#
				±0.1pF	GRM1554C1H1R3BA01#					±0.1pF	GRM1553C1H3R2BA01#
				±0.25pF	GRM1554C1H1R3CA01#					±0.25pF	GRM1553C1H3R2CA01#
		1.4pF		±0.05pF	GRM1554C1H1R4WA01#			3.3pF		±0.05pF	GRM1553C1H3R3WA01#
				±0.1pF	GRM1554C1H1R4BA01#					±0.1pF	GRM1553C1H3R3BA01#
				±0.25pF	GRM1554C1H1R4CA01#					±0.25pF	GRM1553C1H3R3CA01#
		1.5pF		±0.05pF	GRM1554C1H1R5WA01#			3.4pF		±0.05pF	GRM1553C1H3R4WA01#
				±0.1pF	GRM1554C1H1R5BA01#					±0.1pF	GRM1553C1H3R4BA01#
				±0.25pF	GRM1554C1H1R5CA01#					±0.25pF	GRM1553C1H3R4CA01#
		1.6pF		±0.05pF	GRM1554C1H1R6WA01#			3.5pF		±0.05pF	GRM1553C1H3R5WA01#
				±0.1pF	GRM1554C1H1R6BA01#					±0.1pF	GRM1553C1H3R5BA01#
				±0.25pF	GRM1554C1H1R6CA01#					±0.25pF	GRM1553C1H3R5CA01#
		1.7pF		±0.05pF	GRM1554C1H1R7WA01#			3.6pF		±0.05pF	GRM1553C1H3R6WA01#
				±0.1pF	GRM1554C1H1R7BA01#					±0.1pF	GRM1553C1H3R6BA01#
				±0.25pF	GRM1554C1H1R7CA01#					±0.25pF	GRM1553C1H3R6CA01#
		1.8pF		±0.05pF	GRM1554C1H1R8WA01#			3.7pF		±0.05pF	GRM1553C1H3R7WA01#
				±0.1pF	GRM1554C1H1R8BA01#					±0.1pF	GRM1553C1H3R7BA01#
				±0.25pF	GRM1554C1H1R8CA01#					±0.25pF	GRM1553C1H3R7CA01#
		1.9pF		±0.05pF	GRM1554C1H1R9WA01#			3.8pF		±0.05pF	GRM1553C1H3R8WA01#
				±0.1pF	GRM1554C1H1R9BA01#					±0.1pF	GRM1553C1H3R8BA01#
				±0.25pF	GRM1554C1H1R9CA01#					±0.25pF	GRM1553C1H3R8CA01#
		2.0pF		±0.05pF	GRM1554C1H2R0WA01#			3.9pF		±0.05pF	GRM1553C1H3R9WA01#
				±0.1pF	GRM1554C1H2R0BA01#					±0.1pF	GRM1553C1H3R9BA01#
				±0.25pF	GRM1554C1H2R0CA01#					±0.25pF	GRM1553C1H3R9CA01#
	CJ		2.1pF	±0.05pF	GRM1553C1H2R1WA01#			CH	4.0pF	±0.05pF	GRM1552C1H4R0WA01#
				±0.1pF	GRM1553C1H2R1BA01#					±0.1pF	GRM1552C1H4R0BA01#
				±0.25pF	GRM1553C1H2R1CA01#					±0.25pF	GRM1552C1H4R0CA01#
		2.2pF		±0.05pF	GRM1553C1H2R2WA01#				4.1pF	±0.05pF	GRM1552C1H4R1WA01#
				±0.1pF	GRM1553C1H2R2BA01#					±0.1pF	GRM1552C1H4R1BA01#
				±0.25pF	GRM1553C1H2R2CA01#					±0.25pF	GRM1552C1H4R1CA01#
		2.3pF		±0.05pF	GRM1553C1H2R3WA01#			4.2pF		±0.05pF	GRM1552C1H4R2WA01#
				±0.1pF	GRM1553C1H2R3BA01#					±0.1pF	GRM1552C1H4R2BA01#
				±0.25pF	GRM1553C1H2R3CA01#					±0.25pF	GRM1552C1H4R2CA01#
		2.4pF		±0.05pF	GRM1553C1H2R4WA01#			4.3pF		±0.05pF	GRM1552C1H4R3WA01#
				±0.1pF	GRM1553C1H2R4BA01#					±0.1pF	GRM1552C1H4R3BA01#
				±0.25pF	GRM1553C1H2R4CA01#					±0.25pF	GRM1552C1H4R3CA01#
		2.5pF		±0.05pF	GRM1553C1H2R5WA01#						
				±0.1pF	GRM1553C1H2R5BA01#						
				±0.25pF	GRM1553C1H2R5CA01#						

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	4.4pF	±0.05pF	GRM1552C1H4R4WA01#	0.55mm	50Vdc	CH	5.9pF	±0.1pF	GRM1552C1H5R9BA01#
				±0.1pF	GRM1552C1H4R4BA01#				±0.25pF	GRM1552C1H5R9CA01#	
				±0.25pF	GRM1552C1H4R4CA01#				±0.5pF	GRM1552C1H5R9DA01#	
			4.5pF	±0.05pF	GRM1552C1H4R5WA01#			6.0pF	±0.05pF	GRM1552C1H6R0WA01#	
				±0.1pF	GRM1552C1H4R5BA01#				±0.1pF	GRM1552C1H6R0BA01#	
				±0.25pF	GRM1552C1H4R5CA01#				±0.25pF	GRM1552C1H6R0CA01#	
			4.6pF	±0.05pF	GRM1552C1H4R6WA01#				±0.5pF	GRM1552C1H6R0DA01#	
				±0.1pF	GRM1552C1H4R6BA01#			6.1pF	±0.05pF	GRM1552C1H6R1WA01#	
				±0.25pF	GRM1552C1H4R6CA01#				±0.1pF	GRM1552C1H6R1BA01#	
			4.7pF	±0.05pF	GRM1552C1H4R7WA01#				±0.25pF	GRM1552C1H6R1CA01#	
				±0.1pF	GRM1552C1H4R7BA01#				±0.5pF	GRM1552C1H6R1DA01#	
				±0.25pF	GRM1552C1H4R7CA01#			6.2pF	±0.05pF	GRM1552C1H6R2WA01#	
			4.8pF	±0.05pF	GRM1552C1H4R8WA01#				±0.1pF	GRM1552C1H6R2BA01#	
				±0.1pF	GRM1552C1H4R8BA01#				±0.25pF	GRM1552C1H6R2CA01#	
				±0.25pF	GRM1552C1H4R8CA01#				±0.5pF	GRM1552C1H6R2DA01#	
			4.9pF	±0.05pF	GRM1552C1H4R9WA01#			6.3pF	±0.05pF	GRM1552C1H6R3WA01#	
				±0.1pF	GRM1552C1H4R9BA01#				±0.1pF	GRM1552C1H6R3BA01#	
				±0.25pF	GRM1552C1H4R9CA01#				±0.25pF	GRM1552C1H6R3CA01#	
			5.0pF	±0.05pF	GRM1552C1H5R0WA01#				±0.5pF	GRM1552C1H6R3DA01#	
				±0.1pF	GRM1552C1H5R0BA01#			6.4pF	±0.05pF	GRM1552C1H6R4WA01#	
				±0.25pF	GRM1552C1H5R0CA01#				±0.1pF	GRM1552C1H6R4BA01#	
			5.1pF	±0.05pF	GRM1552C1H5R1WA01#				±0.25pF	GRM1552C1H6R4CA01#	
				±0.1pF	GRM1552C1H5R1BA01#				±0.5pF	GRM1552C1H6R4DA01#	
				±0.25pF	GRM1552C1H5R1CA01#			6.5pF	±0.05pF	GRM1552C1H6R5WA01#	
				±0.5pF	GRM1552C1H5R1DA01#				±0.1pF	GRM1552C1H6R5BA01#	
			5.2pF	±0.05pF	GRM1552C1H5R2WA01#				±0.25pF	GRM1552C1H6R5CA01#	
				±0.1pF	GRM1552C1H5R2BA01#				±0.5pF	GRM1552C1H6R5DA01#	
				±0.25pF	GRM1552C1H5R2CA01#			6.6pF	±0.05pF	GRM1552C1H6R6WA01#	
				±0.5pF	GRM1552C1H5R2DA01#				±0.1pF	GRM1552C1H6R6BA01#	
			5.3pF	±0.05pF	GRM1552C1H5R3WA01#				±0.25pF	GRM1552C1H6R6CA01#	
				±0.1pF	GRM1552C1H5R3BA01#				±0.5pF	GRM1552C1H6R6DA01#	
				±0.25pF	GRM1552C1H5R3CA01#			6.7pF	±0.05pF	GRM1552C1H6R7WA01#	
				±0.5pF	GRM1552C1H5R3DA01#				±0.1pF	GRM1552C1H6R7BA01#	
			5.4pF	±0.05pF	GRM1552C1H5R4WA01#				±0.25pF	GRM1552C1H6R7CA01#	
				±0.1pF	GRM1552C1H5R4BA01#				±0.5pF	GRM1552C1H6R7DA01#	
				±0.25pF	GRM1552C1H5R4CA01#			6.8pF	±0.05pF	GRM1552C1H6R8WA01#	
				±0.5pF	GRM1552C1H5R4DA01#				±0.1pF	GRM1552C1H6R8BA01#	
			5.5pF	±0.05pF	GRM1552C1H5R5WA01#				±0.25pF	GRM1552C1H6R8CA01#	
				±0.1pF	GRM1552C1H5R5BA01#				±0.5pF	GRM1552C1H6R8DA01#	
				±0.25pF	GRM1552C1H5R5CA01#			6.9pF	±0.05pF	GRM1552C1H6R9WA01#	
				±0.5pF	GRM1552C1H5R5DA01#				±0.1pF	GRM1552C1H6R9BA01#	
			5.6pF	±0.05pF	GRM1552C1H5R6WA01#				±0.25pF	GRM1552C1H6R9CA01#	
				±0.1pF	GRM1552C1H5R6BA01#				±0.5pF	GRM1552C1H6R9DA01#	
				±0.25pF	GRM1552C1H5R6CA01#			7.0pF	±0.05pF	GRM1552C1H7R0WA01#	
				±0.5pF	GRM1552C1H5R6DA01#				±0.1pF	GRM1552C1H7R0BA01#	
			5.7pF	±0.05pF	GRM1552C1H5R7WA01#				±0.25pF	GRM1552C1H7R0CA01#	
				±0.1pF	GRM1552C1H5R7BA01#				±0.5pF	GRM1552C1H7R0DA01#	
				±0.25pF	GRM1552C1H5R7CA01#			7.1pF	±0.05pF	GRM1552C1H7R1WA01#	
				±0.5pF	GRM1552C1H5R7DA01#				±0.1pF	GRM1552C1H7R1BA01#	
			5.8pF	±0.05pF	GRM1552C1H5R8WA01#				±0.25pF	GRM1552C1H7R1CA01#	
				±0.1pF	GRM1552C1H5R8BA01#				±0.5pF	GRM1552C1H7R1DA01#	
				±0.25pF	GRM1552C1H5R8CA01#			7.2pF	±0.05pF	GRM1552C1H7R2WA01#	
				±0.5pF	GRM1552C1H5R8DA01#				±0.1pF	GRM1552C1H7R2BA01#	
			5.9pF	±0.05pF	GRM1552C1H5R9WA01#				±0.25pF	GRM1552C1H7R2CA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	7.2pF	±0.5pF	GRM1552C1H7R2DA01#	0.55mm	50Vdc	CH	8.6pF	±0.1pF	GRM1552C1H8R6BA01#
			7.3pF	±0.05pF	GRM1552C1H7R3WA01#				±0.25pF	GRM1552C1H8R6CA01#	
				±0.1pF	GRM1552C1H7R3BA01#				±0.5pF	GRM1552C1H8R6DA01#	
				±0.25pF	GRM1552C1H7R3CA01#				±0.05pF	GRM1552C1H8R7WA01#	
				±0.5pF	GRM1552C1H7R3DA01#				±0.1pF	GRM1552C1H8R7BA01#	
			7.4pF	±0.05pF	GRM1552C1H7R4WA01#				±0.25pF	GRM1552C1H8R7CA01#	
				±0.1pF	GRM1552C1H7R4BA01#				±0.5pF	GRM1552C1H8R7DA01#	
				±0.25pF	GRM1552C1H7R4CA01#				±0.05pF	GRM1552C1H8R8WA01#	
				±0.5pF	GRM1552C1H7R4DA01#				±0.1pF	GRM1552C1H8R8BA01#	
			7.5pF	±0.05pF	GRM1552C1H7R5WA01#				±0.25pF	GRM1552C1H8R8CA01#	
				±0.1pF	GRM1552C1H7R5BA01#				±0.5pF	GRM1552C1H8R8DA01#	
				±0.25pF	GRM1552C1H7R5CA01#				±0.05pF	GRM1552C1H8R9WA01#	
				±0.5pF	GRM1552C1H7R5DA01#				±0.1pF	GRM1552C1H8R9BA01#	
			7.6pF	±0.05pF	GRM1552C1H7R6WA01#				±0.25pF	GRM1552C1H8R9CA01#	
				±0.1pF	GRM1552C1H7R6BA01#				±0.5pF	GRM1552C1H8R9DA01#	
				±0.25pF	GRM1552C1H7R6CA01#				±0.05pF	GRM1552C1H9R0WA01#	
				±0.5pF	GRM1552C1H7R6DA01#				±0.1pF	GRM1552C1H9R0BA01#	
			7.7pF	±0.05pF	GRM1552C1H7R7WA01#				±0.25pF	GRM1552C1H9R0CA01#	
				±0.1pF	GRM1552C1H7R7BA01#				±0.5pF	GRM1552C1H9R0DA01#	
				±0.25pF	GRM1552C1H7R7CA01#				±0.05pF	GRM1552C1H9R1WA01#	
				±0.5pF	GRM1552C1H7R7DA01#				±0.1pF	GRM1552C1H9R1BA01#	
			7.8pF	±0.05pF	GRM1552C1H7R8WA01#				±0.25pF	GRM1552C1H9R1CA01#	
				±0.1pF	GRM1552C1H7R8BA01#				±0.5pF	GRM1552C1H9R1DA01#	
				±0.25pF	GRM1552C1H7R8CA01#				±0.05pF	GRM1552C1H9R2WA01#	
				±0.5pF	GRM1552C1H7R8DA01#				±0.1pF	GRM1552C1H9R2BA01#	
			7.9pF	±0.05pF	GRM1552C1H7R9WA01#				±0.25pF	GRM1552C1H9R2CA01#	
				±0.1pF	GRM1552C1H7R9BA01#				±0.5pF	GRM1552C1H9R2DA01#	
				±0.25pF	GRM1552C1H7R9CA01#				±0.05pF	GRM1552C1H9R3WA01#	
				±0.5pF	GRM1552C1H7R9DA01#				±0.1pF	GRM1552C1H9R3BA01#	
			8.0pF	±0.05pF	GRM1552C1H8R0WA01#				±0.25pF	GRM1552C1H9R3CA01#	
				±0.1pF	GRM1552C1H8R0BA01#				±0.5pF	GRM1552C1H9R3DA01#	
				±0.25pF	GRM1552C1H8R0CA01#				±0.05pF	GRM1552C1H9R4WA01#	
				±0.5pF	GRM1552C1H8R0DA01#				±0.1pF	GRM1552C1H9R4BA01#	
			8.1pF	±0.05pF	GRM1552C1H8R1WA01#				±0.25pF	GRM1552C1H9R4CA01#	
				±0.1pF	GRM1552C1H8R1BA01#				±0.5pF	GRM1552C1H9R4DA01#	
				±0.25pF	GRM1552C1H8R1CA01#				±0.05pF	GRM1552C1H9R5WA01#	
				±0.5pF	GRM1552C1H8R1DA01#				±0.1pF	GRM1552C1H9R5BA01#	
			8.2pF	±0.05pF	GRM1552C1H8R2WA01#				±0.25pF	GRM1552C1H9R5CA01#	
				±0.1pF	GRM1552C1H8R2BA01#				±0.5pF	GRM1552C1H9R5DA01#	
				±0.25pF	GRM1552C1H8R2CA01#				±0.05pF	GRM1552C1H9R6WA01#	
				±0.5pF	GRM1552C1H8R2DA01#				±0.1pF	GRM1552C1H9R6BA01#	
			8.3pF	±0.05pF	GRM1552C1H8R3WA01#				±0.25pF	GRM1552C1H9R6CA01#	
				±0.1pF	GRM1552C1H8R3BA01#				±0.5pF	GRM1552C1H9R6DA01#	
				±0.25pF	GRM1552C1H8R3CA01#				±0.05pF	GRM1552C1H9R7WA01#	
				±0.5pF	GRM1552C1H8R3DA01#				±0.1pF	GRM1552C1H9R7BA01#	
			8.4pF	±0.05pF	GRM1552C1H8R4WA01#				±0.25pF	GRM1552C1H9R7CA01#	
				±0.1pF	GRM1552C1H8R4BA01#				±0.5pF	GRM1552C1H9R7DA01#	
				±0.25pF	GRM1552C1H8R4CA01#				±0.05pF	GRM1552C1H9R8WA01#	
				±0.5pF	GRM1552C1H8R4DA01#				±0.1pF	GRM1552C1H9R8BA01#	
			8.5pF	±0.05pF	GRM1552C1H8R5WA01#				±0.25pF	GRM1552C1H9R8CA01#	
				±0.1pF	GRM1552C1H8R5BA01#				±0.5pF	GRM1552C1H9R8DA01#	
				±0.25pF	GRM1552C1H8R5CA01#				±0.05pF	GRM1552C1H9R9WA01#	
				±0.5pF	GRM1552C1H8R5DA01#				±0.1pF	GRM1552C1H9R9BA01#	
			8.6pF	±0.05pF	GRM1552C1H8R6WA01#				±0.25pF	GRM1552C1H9R9CA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	9.9pF	±0.5pF	GRM1552C1H9R9DA01#
			10pF	±2%	GRM1552C1H100GA01#
				±5%	GRM1552C1H100JA01#
			12pF	±2%	GRM1552C1H120GA01#
				±5%	GRM1552C1H120JA01#
			15pF	±2%	GRM1552C1H150GA01#
				±5%	GRM1552C1H150JA01#
			18pF	±2%	GRM1552C1H180GA01#
				±5%	GRM1552C1H180JA01#
			22pF	±2%	GRM1552C1H220GA01#
				±5%	GRM1552C1H220JA01#
			27pF	±2%	GRM1552C1H270GA01#
				±5%	GRM1552C1H270JA01#
			33pF	±2%	GRM1552C1H330GA01#
				±5%	GRM1552C1H330JA01#
			39pF	±2%	GRM1552C1H390GA01#
				±5%	GRM1552C1H390JA01#
			47pF	±2%	GRM1552C1H470GA01#
				±5%	GRM1552C1H470JA01#
			56pF	±2%	GRM1552C1H560GA01#
				±5%	GRM1552C1H560JA01#
			68pF	±2%	GRM1552C1H680GA01#
				±5%	GRM1552C1H680JA01#
			82pF	±2%	GRM1552C1H820GA01#
				±5%	GRM1552C1H820JA01#
			100pF	±2%	GRM1552C1H101GA01#
				±5%	GRM1552C1H101JA01#
			120pF	±2%	GRM1552C1H121GA01#
				±5%	GRM1552C1H121JA01#
			150pF	±2%	GRM1552C1H151GA01#
				±5%	GRM1552C1H151JA01#
			180pF	±2%	GRM1552C1H181GA01#
				±5%	GRM1552C1H181JA01#
			220pF	±2%	GRM1552C1H221GA01#
				±5%	GRM1552C1H221JA01#
			270pF	±2%	GRM1552C1H271GA01#
				±5%	GRM1552C1H271JA01#
			330pF	±2%	GRM1552C1H331GA01#
				±5%	GRM1552C1H331JA01#
			390pF	±2%	GRM1552C1H391GA01#
				±5%	GRM1552C1H391JA01#
			470pF	±2%	GRM1552C1H471GA01#
				±5%	GRM1552C1H471JA01#
			560pF	±2%	GRM1552C1H561GA01#
				±5%	GRM1552C1H561JA01#
			680pF	±2%	GRM1552C1H681GA01#
				±5%	GRM1552C1H681JA01#
			820pF	±2%	GRM1552C1H821GA01#
				±5%	GRM1552C1H821JA01#
			1000pF	±2%	GRM1552C1H102GA01#
				±5%	GRM1552C1H102JA01#
10Vdc	SL		1200pF	±5%	GRM1551X1A122JA01#
			1500pF	±5%	GRM1551X1A152JA01#
			1800pF	±5%	GRM1551X1A182JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	10Vdc	SL	2200pF	±5%	GRM1551X1A222JA01#
			2700pF	±5%	GRM1551X1A272JA01#
			3300pF	±5%	GRM1551X1A332JA01#
			3900pF	±5%	GRM1551X1A392JA01#
			4700pF	±5%	GRM1551X1A472JA01#
		U2J	1200pF	±5%	GRM1557U1A122JA01#
			1500pF	±5%	GRM1557U1A152JA01#
			1800pF	±5%	GRM1557U1A182JA01#
			2200pF	±5%	GRM1557U1A222JA01#
			2700pF	±5%	GRM1557U1A272JA01#
			3300pF	±5%	GRM1557U1A332JA01#
			3900pF	±5%	GRM1557U1A392JA01#
			4700pF	±5%	GRM1557U1A472JA01#
		UJ	1200pF	±5%	GRM1553U1A122JA01#
			1500pF	±5%	GRM1553U1A152JA01#
			1800pF	±5%	GRM1553U1A182JA01#
			2200pF	±5%	GRM1553U1A222JA01#
			2700pF	±5%	GRM1553U1A272JA01#
			3300pF	±5%	GRM1553U1A332JA01#
			3900pF	±5%	GRM1553U1A392JA01#
			4700pF	±5%	GRM1553U1A472JA01#

### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.5mm	50Vdc	SL	2200pF	±5%	GRM1851X1H222JA44#
			2700pF	±5%	GRM1851X1H272JA44#
			3300pF	±5%	GRM1851X1H332JA44#
			3900pF	±5%	GRM1851X1H392JA44#
			4700pF	±5%	GRM1851X1H472JA44#
		U2J	2200pF	±5%	GRM1857U1H222JA44#
			2700pF	±5%	GRM1857U1H272JA44#
			3300pF	±5%	GRM1857U1H332JA44#
			3900pF	±5%	GRM1857U1H392JA44#
			4700pF	±5%	GRM1857U1H472JA44#
		UJ	2200pF	±5%	GRM1853U1H222JA44#
			2700pF	±5%	GRM1853U1H272JA44#
			3300pF	±5%	GRM1853U1H332JA44#
			3900pF	±5%	GRM1853U1H392JA44#
			4700pF	±5%	GRM1853U1H472JA44#
		10Vdc	5600pF	±5%	GRM1851X1A562JA44#
			6800pF	±5%	GRM1851X1A682JA44#
			8200pF	±5%	GRM1851X1A822JA44#
			10000pF	±5%	GRM1851X1A103JA44#
		U2J	5600pF	±5%	GRM1857U1A562JA44#
			6800pF	±5%	GRM1857U1A682JA44#
			8200pF	±5%	GRM1857U1A822JA44#
			10000pF	±5%	GRM1857U1A103JA44#
		UJ	5600pF	±5%	GRM1853U1A562JA44#
			6800pF	±5%	GRM1853U1A682JA44#
			8200pF	±5%	GRM1853U1A822JA44#
			10000pF	±5%	GRM1853U1A103JA44#
0.9mm	100Vdc	COG	0.50pF	±0.05pF	GRM1885C2AR50WA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	0.50pF	±0.1pF	GRM1885C2AR50BA01#
			0.60pF	±0.05pF	GRM1885C2AR60WA01#
				±0.1pF	GRM1885C2AR60BA01#
			0.70pF	±0.05pF	GRM1885C2AR70WA01#
				±0.1pF	GRM1885C2AR70BA01#
			0.80pF	±0.05pF	GRM1885C2AR80WA01#
				±0.1pF	GRM1885C2AR80BA01#
			0.90pF	±0.05pF	GRM1885C2AR90WA01#
				±0.1pF	GRM1885C2AR90BA01#
			1.0pF	±0.05pF	GRM1885C2A1R0WA01#
				±0.1pF	GRM1885C2A1R0BA01#
				±0.25pF	GRM1885C2A1R0CA01#
			1.1pF	±0.05pF	GRM1885C2A1R1WA01#
				±0.1pF	GRM1885C2A1R1BA01#
				±0.25pF	GRM1885C2A1R1CA01#
			1.2pF	±0.05pF	GRM1885C2A1R2WA01#
				±0.1pF	GRM1885C2A1R2BA01#
				±0.25pF	GRM1885C2A1R2CA01#
			1.3pF	±0.05pF	GRM1885C2A1R3WA01#
				±0.1pF	GRM1885C2A1R3BA01#
				±0.25pF	GRM1885C2A1R3CA01#
			1.4pF	±0.05pF	GRM1885C2A1R4WA01#
				±0.1pF	GRM1885C2A1R4BA01#
				±0.25pF	GRM1885C2A1R4CA01#
			1.5pF	±0.05pF	GRM1885C2A1R5WA01#
				±0.1pF	GRM1885C2A1R5BA01#
				±0.25pF	GRM1885C2A1R5CA01#
			1.6pF	±0.05pF	GRM1885C2A1R6WA01#
				±0.1pF	GRM1885C2A1R6BA01#
				±0.25pF	GRM1885C2A1R6CA01#
			1.7pF	±0.05pF	GRM1885C2A1R7WA01#
				±0.1pF	GRM1885C2A1R7BA01#
				±0.25pF	GRM1885C2A1R7CA01#
			1.8pF	±0.05pF	GRM1885C2A1R8WA01#
				±0.1pF	GRM1885C2A1R8BA01#
				±0.25pF	GRM1885C2A1R8CA01#
			1.9pF	±0.05pF	GRM1885C2A1R9WA01#
				±0.1pF	GRM1885C2A1R9BA01#
				±0.25pF	GRM1885C2A1R9CA01#
			2.0pF	±0.05pF	GRM1885C2A2R0WA01#
				±0.1pF	GRM1885C2A2R0BA01#
				±0.25pF	GRM1885C2A2R0CA01#
			2.1pF	±0.05pF	GRM1885C2A2R1WA01#
				±0.1pF	GRM1885C2A2R1BA01#
				±0.25pF	GRM1885C2A2R1CA01#
			2.2pF	±0.05pF	GRM1885C2A2R2WA01#
				±0.1pF	GRM1885C2A2R2BA01#
				±0.25pF	GRM1885C2A2R2CA01#
			2.3pF	±0.05pF	GRM1885C2A2R3WA01#
				±0.1pF	GRM1885C2A2R3BA01#
				±0.25pF	GRM1885C2A2R3CA01#
			2.4pF	±0.05pF	GRM1885C2A2R4WA01#
				±0.1pF	GRM1885C2A2R4BA01#
				±0.25pF	GRM1885C2A2R4CA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	2.5pF	±0.05pF	GRM1885C2A2R5WA01#
				±0.1pF	GRM1885C2A2R5BA01#
				±0.25pF	GRM1885C2A2R5CA01#
			2.6pF	±0.05pF	GRM1885C2A2R6WA01#
				±0.1pF	GRM1885C2A2R6BA01#
				±0.25pF	GRM1885C2A2R6CA01#
			2.7pF	±0.05pF	GRM1885C2A2R7WA01#
				±0.1pF	GRM1885C2A2R7BA01#
				±0.25pF	GRM1885C2A2R7CA01#
			2.8pF	±0.05pF	GRM1885C2A2R8WA01#
				±0.1pF	GRM1885C2A2R8BA01#
				±0.25pF	GRM1885C2A2R8CA01#
			2.9pF	±0.05pF	GRM1885C2A2R9WA01#
				±0.1pF	GRM1885C2A2R9BA01#
				±0.25pF	GRM1885C2A2R9CA01#
			3.0pF	±0.05pF	GRM1885C2A3R0WA01#
				±0.1pF	GRM1885C2A3R0BA01#
				±0.25pF	GRM1885C2A3R0CA01#
			3.1pF	±0.05pF	GRM1885C2A3R1WA01#
				±0.1pF	GRM1885C2A3R1BA01#
				±0.25pF	GRM1885C2A3R1CA01#
			3.2pF	±0.05pF	GRM1885C2A3R2WA01#
				±0.1pF	GRM1885C2A3R2BA01#
				±0.25pF	GRM1885C2A3R2CA01#
			3.3pF	±0.05pF	GRM1885C2A3R3WA01#
				±0.1pF	GRM1885C2A3R3BA01#
				±0.25pF	GRM1885C2A3R3CA01#
			3.4pF	±0.05pF	GRM1885C2A3R4WA01#
				±0.1pF	GRM1885C2A3R4BA01#
				±0.25pF	GRM1885C2A3R4CA01#
			3.5pF	±0.05pF	GRM1885C2A3R5WA01#
				±0.1pF	GRM1885C2A3R5BA01#
				±0.25pF	GRM1885C2A3R5CA01#
			3.6pF	±0.05pF	GRM1885C2A3R6WA01#
				±0.1pF	GRM1885C2A3R6BA01#
				±0.25pF	GRM1885C2A3R6CA01#
			3.7pF	±0.05pF	GRM1885C2A3R7WA01#
				±0.1pF	GRM1885C2A3R7BA01#
				±0.25pF	GRM1885C2A3R7CA01#
			3.8pF	±0.05pF	GRM1885C2A3R8WA01#
				±0.1pF	GRM1885C2A3R8BA01#
				±0.25pF	GRM1885C2A3R8CA01#
			3.9pF	±0.05pF	GRM1885C2A3R9WA01#
				±0.1pF	GRM1885C2A3R9BA01#
				±0.25pF	GRM1885C2A3R9CA01#
			4.0pF	±0.05pF	GRM1885C2A4R0WA01#
				±0.1pF	GRM1885C2A4R0BA01#
				±0.25pF	GRM1885C2A4R0CA01#
			4.1pF	±0.05pF	GRM1885C2A4R1WA01#
				±0.1pF	GRM1885C2A4R1BA01#
				±0.25pF	GRM1885C2A4R1CA01#
			4.2pF	±0.05pF	GRM1885C2A4R2WA01#
				±0.1pF	GRM1885C2A4R2BA01#
				±0.25pF	GRM1885C2A4R2CA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	4.3pF	±0.05pF	GRM1885C2A4R3WA01#	0.9mm	100Vdc	COG	5.8pF	±0.25pF	GRM1885C2A5R8CA01#
				±0.1pF	GRM1885C2A4R3BA01#				±0.5pF	GRM1885C2A5R8DA01#	
				±0.25pF	GRM1885C2A4R3CA01#				±0.05pF	GRM1885C2A5R9WA01#	
			4.4pF	±0.05pF	GRM1885C2A4R4WA01#				±0.1pF	GRM1885C2A5R9BA01#	
				±0.1pF	GRM1885C2A4R4BA01#				±0.25pF	GRM1885C2A5R9CA01#	
				±0.25pF	GRM1885C2A4R4CA01#				±0.5pF	GRM1885C2A5R9DA01#	
			4.5pF	±0.05pF	GRM1885C2A4R5WA01#				±0.05pF	GRM1885C2A6R0WA01#	
				±0.1pF	GRM1885C2A4R5BA01#				±0.1pF	GRM1885C2A6R0BA01#	
				±0.25pF	GRM1885C2A4R5CA01#				±0.25pF	GRM1885C2A6R0CA01#	
			4.6pF	±0.05pF	GRM1885C2A4R6WA01#				±0.5pF	GRM1885C2A6R0DA01#	
				±0.1pF	GRM1885C2A4R6BA01#				±0.05pF	GRM1885C2A6R1WA01#	
				±0.25pF	GRM1885C2A4R6CA01#				±0.1pF	GRM1885C2A6R1BA01#	
			4.7pF	±0.05pF	GRM1885C2A4R7WA01#				±0.25pF	GRM1885C2A6R1CA01#	
				±0.1pF	GRM1885C2A4R7BA01#				±0.5pF	GRM1885C2A6R1DA01#	
				±0.25pF	GRM1885C2A4R7CA01#				±0.05pF	GRM1885C2A6R2WA01#	
			4.8pF	±0.05pF	GRM1885C2A4R8WA01#				±0.1pF	GRM1885C2A6R2BA01#	
				±0.1pF	GRM1885C2A4R8BA01#				±0.25pF	GRM1885C2A6R2CA01#	
				±0.25pF	GRM1885C2A4R8CA01#				±0.5pF	GRM1885C2A6R2DA01#	
			4.9pF	±0.05pF	GRM1885C2A4R9WA01#				±0.05pF	GRM1885C2A6R3WA01#	
				±0.1pF	GRM1885C2A4R9BA01#				±0.1pF	GRM1885C2A6R3BA01#	
				±0.25pF	GRM1885C2A4R9CA01#				±0.25pF	GRM1885C2A6R3CA01#	
			5.0pF	±0.05pF	GRM1885C2A5R0WA01#				±0.5pF	GRM1885C2A6R3DA01#	
				±0.1pF	GRM1885C2A5R0BA01#				±0.05pF	GRM1885C2A6R4WA01#	
				±0.25pF	GRM1885C2A5R0CA01#				±0.1pF	GRM1885C2A6R4BA01#	
			5.1pF	±0.05pF	GRM1885C2A5R1WA01#				±0.25pF	GRM1885C2A6R4CA01#	
				±0.1pF	GRM1885C2A5R1BA01#				±0.5pF	GRM1885C2A6R4DA01#	
				±0.25pF	GRM1885C2A5R1CA01#				±0.05pF	GRM1885C2A6R5WA01#	
				±0.5pF	GRM1885C2A5R1DA01#				±0.1pF	GRM1885C2A6R5BA01#	
			5.2pF	±0.05pF	GRM1885C2A5R2WA01#				±0.25pF	GRM1885C2A6R5CA01#	
				±0.1pF	GRM1885C2A5R2BA01#				±0.5pF	GRM1885C2A6R5DA01#	
				±0.25pF	GRM1885C2A5R2CA01#				±0.05pF	GRM1885C2A6R6WA01#	
				±0.5pF	GRM1885C2A5R2DA01#				±0.1pF	GRM1885C2A6R6BA01#	
			5.3pF	±0.05pF	GRM1885C2A5R3WA01#				±0.25pF	GRM1885C2A6R6CA01#	
				±0.1pF	GRM1885C2A5R3BA01#				±0.5pF	GRM1885C2A6R6DA01#	
				±0.25pF	GRM1885C2A5R3CA01#				±0.05pF	GRM1885C2A6R7WA01#	
				±0.5pF	GRM1885C2A5R3DA01#				±0.1pF	GRM1885C2A6R7BA01#	
			5.4pF	±0.05pF	GRM1885C2A5R4WA01#				±0.25pF	GRM1885C2A6R7CA01#	
				±0.1pF	GRM1885C2A5R4BA01#				±0.5pF	GRM1885C2A6R7DA01#	
				±0.25pF	GRM1885C2A5R4CA01#				±0.05pF	GRM1885C2A6R8WA01#	
				±0.5pF	GRM1885C2A5R4DA01#				±0.1pF	GRM1885C2A6R8BA01#	
			5.5pF	±0.05pF	GRM1885C2A5R5WA01#				±0.25pF	GRM1885C2A6R8CA01#	
				±0.1pF	GRM1885C2A5R5BA01#				±0.5pF	GRM1885C2A6R8DA01#	
				±0.25pF	GRM1885C2A5R5CA01#				±0.05pF	GRM1885C2A6R9WA01#	
				±0.5pF	GRM1885C2A5R5DA01#				±0.1pF	GRM1885C2A6R9BA01#	
			5.6pF	±0.05pF	GRM1885C2A5R6WA01#				±0.25pF	GRM1885C2A6R9CA01#	
				±0.1pF	GRM1885C2A5R6BA01#				±0.5pF	GRM1885C2A6R9DA01#	
				±0.25pF	GRM1885C2A5R6CA01#				±0.05pF	GRM1885C2A7R0WA01#	
				±0.5pF	GRM1885C2A5R6DA01#				±0.1pF	GRM1885C2A7R0BA01#	
			5.7pF	±0.05pF	GRM1885C2A5R7WA01#				±0.25pF	GRM1885C2A7R0CA01#	
				±0.1pF	GRM1885C2A5R7BA01#				±0.5pF	GRM1885C2A7R0DA01#	
				±0.25pF	GRM1885C2A5R7CA01#				±0.05pF	GRM1885C2A7R1WA01#	
				±0.5pF	GRM1885C2A5R7DA01#				±0.1pF	GRM1885C2A7R1BA01#	
			5.8pF	±0.05pF	GRM1885C2A5R8WA01#				±0.25pF	GRM1885C2A7R1CA01#	
				±0.1pF	GRM1885C2A5R8BA01#				±0.5pF	GRM1885C2A7R1DA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	7.2pF	±0.05pF	GRM1885C2A7R2WA01#	0.9mm	100Vdc	COG	8.5pF	±0.25pF	GRM1885C2A8R5CA01#
				±0.1pF	GRM1885C2A7R2BA01#					±0.5pF	GRM1885C2A8R5DA01#
				±0.25pF	GRM1885C2A7R2CA01#					±0.05pF	GRM1885C2A8R6WA01#
				±0.5pF	GRM1885C2A7R2DA01#					±0.1pF	GRM1885C2A8R6BA01#
			7.3pF	±0.05pF	GRM1885C2A7R3WA01#					±0.25pF	GRM1885C2A8R6CA01#
				±0.1pF	GRM1885C2A7R3BA01#					±0.5pF	GRM1885C2A8R6DA01#
				±0.25pF	GRM1885C2A7R3CA01#					±0.05pF	GRM1885C2A8R7WA01#
				±0.5pF	GRM1885C2A7R3DA01#					±0.1pF	GRM1885C2A8R7BA01#
			7.4pF	±0.05pF	GRM1885C2A7R4WA01#					±0.25pF	GRM1885C2A8R7CA01#
				±0.1pF	GRM1885C2A7R4BA01#					±0.5pF	GRM1885C2A8R7DA01#
				±0.25pF	GRM1885C2A7R4CA01#					±0.05pF	GRM1885C2A8R8WA01#
				±0.5pF	GRM1885C2A7R4DA01#					±0.1pF	GRM1885C2A8R8BA01#
			7.5pF	±0.05pF	GRM1885C2A7R5WA01#					±0.25pF	GRM1885C2A8R8CA01#
				±0.1pF	GRM1885C2A7R5BA01#					±0.5pF	GRM1885C2A8R8DA01#
				±0.25pF	GRM1885C2A7R5CA01#					±0.05pF	GRM1885C2A8R9WA01#
				±0.5pF	GRM1885C2A7R5DA01#					±0.1pF	GRM1885C2A8R9BA01#
			7.6pF	±0.05pF	GRM1885C2A7R6WA01#					±0.25pF	GRM1885C2A8R9CA01#
				±0.1pF	GRM1885C2A7R6BA01#					±0.5pF	GRM1885C2A8R9DA01#
				±0.25pF	GRM1885C2A7R6CA01#					±0.05pF	GRM1885C2A9R0WA01#
				±0.5pF	GRM1885C2A7R6DA01#					±0.1pF	GRM1885C2A9R0BA01#
			7.7pF	±0.05pF	GRM1885C2A7R7WA01#					±0.25pF	GRM1885C2A9R0CA01#
				±0.1pF	GRM1885C2A7R7BA01#					±0.5pF	GRM1885C2A9R0DA01#
				±0.25pF	GRM1885C2A7R7CA01#					±0.05pF	GRM1885C2A9R1WA01#
				±0.5pF	GRM1885C2A7R7DA01#					±0.1pF	GRM1885C2A9R1BA01#
			7.8pF	±0.05pF	GRM1885C2A7R8WA01#					±0.25pF	GRM1885C2A9R1CA01#
				±0.1pF	GRM1885C2A7R8BA01#					±0.5pF	GRM1885C2A9R1DA01#
				±0.25pF	GRM1885C2A7R8CA01#					±0.05pF	GRM1885C2A9R2WA01#
				±0.5pF	GRM1885C2A7R8DA01#					±0.1pF	GRM1885C2A9R2BA01#
			7.9pF	±0.05pF	GRM1885C2A7R9WA01#					±0.25pF	GRM1885C2A9R2CA01#
				±0.1pF	GRM1885C2A7R9BA01#					±0.5pF	GRM1885C2A9R2DA01#
				±0.25pF	GRM1885C2A7R9CA01#					±0.05pF	GRM1885C2A9R3WA01#
				±0.5pF	GRM1885C2A7R9DA01#					±0.1pF	GRM1885C2A9R3BA01#
			8.0pF	±0.05pF	GRM1885C2A8R0WA01#					±0.25pF	GRM1885C2A9R3CA01#
				±0.1pF	GRM1885C2A8R0BA01#					±0.5pF	GRM1885C2A9R3DA01#
				±0.25pF	GRM1885C2A8R0CA01#					±0.05pF	GRM1885C2A9R4WA01#
				±0.5pF	GRM1885C2A8R0DA01#					±0.1pF	GRM1885C2A9R4BA01#
			8.1pF	±0.05pF	GRM1885C2A8R1WA01#					±0.25pF	GRM1885C2A9R4CA01#
				±0.1pF	GRM1885C2A8R1BA01#					±0.5pF	GRM1885C2A9R4DA01#
				±0.25pF	GRM1885C2A8R1CA01#					±0.05pF	GRM1885C2A9R5WA01#
				±0.5pF	GRM1885C2A8R1DA01#					±0.1pF	GRM1885C2A9R5BA01#
			8.2pF	±0.05pF	GRM1885C2A8R2WA01#					±0.25pF	GRM1885C2A9R5CA01#
				±0.1pF	GRM1885C2A8R2BA01#					±0.5pF	GRM1885C2A9R5DA01#
				±0.25pF	GRM1885C2A8R2CA01#					±0.05pF	GRM1885C2A9R6WA01#
				±0.5pF	GRM1885C2A8R2DA01#					±0.1pF	GRM1885C2A9R6BA01#
			8.3pF	±0.05pF	GRM1885C2A8R3WA01#					±0.25pF	GRM1885C2A9R6CA01#
				±0.1pF	GRM1885C2A8R3BA01#					±0.5pF	GRM1885C2A9R6DA01#
				±0.25pF	GRM1885C2A8R3CA01#					±0.05pF	GRM1885C2A9R7WA01#
				±0.5pF	GRM1885C2A8R3DA01#					±0.1pF	GRM1885C2A9R7BA01#
			8.4pF	±0.05pF	GRM1885C2A8R4WA01#					±0.25pF	GRM1885C2A9R7CA01#
				±0.1pF	GRM1885C2A8R4BA01#					±0.5pF	GRM1885C2A9R7DA01#
				±0.25pF	GRM1885C2A8R4CA01#					±0.05pF	GRM1885C2A9R8WA01#
				±0.5pF	GRM1885C2A8R4DA01#					±0.1pF	GRM1885C2A9R8BA01#
			8.5pF	±0.05pF	GRM1885C2A8R5WA01#					±0.25pF	GRM1885C2A9R8CA01#
				±0.1pF	GRM1885C2A8R5BA01#					±0.5pF	GRM1885C2A9R8DA01#

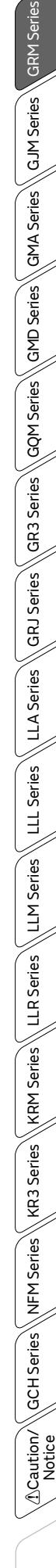
Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	COG	9.9pF	±0.05pF	GRM1885C2A9R9WA01#	0.9mm	100Vdc	CK	1.4pF	±0.1pF	GRM1884C2A1R4BA01#	
				±0.1pF	GRM1885C2A9R9BA01#				1.5pF	±0.25pF	GRM1884C2A1R4CA01#	
				±0.25pF	GRM1885C2A9R9CA01#				1.6pF	±0.05pF	GRM1884C2A1R5WA01#	
				±0.5pF	GRM1885C2A9R9DA01#				1.7pF	±0.1pF	GRM1884C2A1R5BA01#	
			10pF	±5%	GRM1885C2A100JA01#				1.8pF	±0.25pF	GRM1884C2A1R5CA01#	
				±5%	GRM1885C2A120JA01#				1.9pF	±0.05pF	GRM1884C2A1R7WA01#	
				±5%	GRM1885C2A150JA01#				1.9pF	±0.1pF	GRM1884C2A1R7BA01#	
				±5%	GRM1885C2A180JA01#				1.9pF	±0.25pF	GRM1884C2A1R7CA01#	
				±5%	GRM1885C2A220JA01#				2.0pF	±0.05pF	GRM1884C2A1R8WA01#	
				±5%	GRM1885C2A270JA01#				2.0pF	±0.1pF	GRM1884C2A1R8BA01#	
				±5%	GRM1885C2A330JA01#				2.0pF	±0.25pF	GRM1884C2A1R8CA01#	
				±5%	GRM1885C2A390JA01#				CJ	2.1pF	±0.05pF	GRM1883C2A2R1WA01#
				±5%	GRM1885C2A470JA01#				CJ	2.1pF	±0.1pF	GRM1883C2A2R1BA01#
				±5%	GRM1885C2A560JA01#				CJ	2.1pF	±0.25pF	GRM1883C2A2R1CA01#
				±5%	GRM1885C2A680JA01#				CJ	2.2pF	±0.05pF	GRM1883C2A2R2WA01#
				±5%	GRM1885C2A820JA01#				CJ	2.2pF	±0.1pF	GRM1883C2A2R2BA01#
				±5%	GRM1885C2A101JA01#				CJ	2.2pF	±0.25pF	GRM1883C2A2R2CA01#
				±5%	GRM1885C2A121JA01#				CJ	2.3pF	±0.05pF	GRM1883C2A2R3WA01#
				±5%	GRM1885C2A151JA01#				CJ	2.3pF	±0.1pF	GRM1883C2A2R3BA01#
				±5%	GRM1885C2A181JA01#				CJ	2.3pF	±0.25pF	GRM1883C2A2R3CA01#
				±5%	GRM1885C2A221JA01#				CJ	2.4pF	±0.05pF	GRM1883C2A2R4WA01#
				±5%	GRM1885C2A271JA01#				CJ	2.4pF	±0.1pF	GRM1883C2A2R4BA01#
				±5%	GRM1885C2A331JA01#				CJ	2.4pF	±0.25pF	GRM1883C2A2R4CA01#
				±5%	GRM1885C2A391JA01#				CJ	2.5pF	±0.05pF	GRM1883C2A2R5WA01#
				±5%	GRM1885C2A471JA01#				CJ	2.5pF	±0.1pF	GRM1883C2A2R5BA01#
				±5%	GRM1885C2A561JA01#				CJ	2.5pF	±0.25pF	GRM1883C2A2R5CA01#
				±5%	GRM1885C2A681JA01#				CJ	2.6pF	±0.05pF	GRM1883C2A2R6WA01#
				±5%	GRM1885C2A821JA01#				CJ	2.6pF	±0.1pF	GRM1883C2A2R6BA01#
				±5%	GRM1885C2A102JA01#				CJ	2.6pF	±0.25pF	GRM1883C2A2R6CA01#
				±5%	GRM1885C2A122JA01#				CJ	2.7pF	±0.05pF	GRM1883C2A2R7WA01#
				±5%	GRM1885C2A152JA01#				CJ	2.7pF	±0.1pF	GRM1883C2A2R7BA01#
			CK	±0.05pF	GRM1884C2AR50WA01#				CJ	2.7pF	±0.25pF	GRM1883C2A2R7CA01#
				±0.1pF	GRM1884C2AR50BA01#				CJ	2.8pF	±0.05pF	GRM1883C2A2R8WA01#
				±0.05pF	GRM1884C2AR60WA01#				CJ	2.8pF	±0.1pF	GRM1883C2A2R8BA01#
				±0.1pF	GRM1884C2AR60BA01#				CJ	2.8pF	±0.25pF	GRM1883C2A2R8CA01#
				±0.05pF	GRM1884C2AR70WA01#				CJ	2.9pF	±0.05pF	GRM1883C2A2R9WA01#
				±0.1pF	GRM1884C2AR70BA01#				CJ	2.9pF	±0.1pF	GRM1883C2A2R9BA01#
				±0.05pF	GRM1884C2AR80WA01#				CJ	2.9pF	±0.25pF	GRM1883C2A2R9CA01#
				±0.1pF	GRM1884C2AR80BA01#				CJ	3.0pF	±0.05pF	GRM1883C2A3R0WA01#
				±0.05pF	GRM1884C2AR90WA01#				CJ	3.0pF	±0.1pF	GRM1883C2A3R0BA01#
				±0.1pF	GRM1884C2AR90BA01#				CJ	3.0pF	±0.25pF	GRM1883C2A3R0CA01#
				±0.05pF	GRM1884C2A1R0WA01#				CJ	3.1pF	±0.05pF	GRM1883C2A3R1WA01#
				±0.1pF	GRM1884C2A1R0BA01#				CJ	3.1pF	±0.1pF	GRM1883C2A3R1BA01#
				±0.25pF	GRM1884C2A1R0CA01#				CJ	3.1pF	±0.25pF	GRM1883C2A3R1CA01#
				±0.05pF	GRM1884C2A1R1WA01#				CJ	3.2pF	±0.05pF	GRM1883C2A3R2WA01#
				±0.1pF	GRM1884C2A1R1BA01#							
				±0.25pF	GRM1884C2A1R1CA01#							
				±0.05pF	GRM1884C2A1R2WA01#							
				±0.1pF	GRM1884C2A1R2BA01#							
				±0.25pF	GRM1884C2A1R2CA01#							
				±0.05pF	GRM1884C2A1R3WA01#							
				±0.1pF	GRM1884C2A1R3BA01#							
				±0.25pF	GRM1884C2A1R3CA01#							
				±0.05pF	GRM1884C2A1R4WA01#							

Part number # indicates the package specification code.



## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	CJ	3.2pF	±0.1pF	GRM1883C2A3R2BA01#	0.9mm	100Vdc	CH	5.0pF	±0.1pF	GRM1882C2A5R0BA01#
				±0.25pF	GRM1883C2A3R2CA01#					±0.25pF	GRM1882C2A5R0CA01#
				±0.05pF	GRM1883C2A3R3WA01#					±0.05pF	GRM1882C2A5R1WA01#
				±0.1pF	GRM1883C2A3R3BA01#					±0.1pF	GRM1882C2A5R1BA01#
				±0.25pF	GRM1883C2A3R3CA01#					±0.25pF	GRM1882C2A5R1CA01#
				±0.05pF	GRM1883C2A3R4WA01#					±0.5pF	GRM1882C2A5R1DA01#
				±0.1pF	GRM1883C2A3R4BA01#					±0.05pF	GRM1882C2A5R2WA01#
				±0.25pF	GRM1883C2A3R4CA01#					±0.1pF	GRM1882C2A5R2BA01#
				±0.05pF	GRM1883C2A3R5WA01#					±0.25pF	GRM1882C2A5R2CA01#
				±0.1pF	GRM1883C2A3R5BA01#					±0.5pF	GRM1882C2A5R2DA01#
				±0.25pF	GRM1883C2A3R5CA01#					±0.05pF	GRM1882C2A5R3WA01#
			3.5pF	±0.05pF	GRM1883C2A3R5WA01#					±0.1pF	GRM1882C2A5R3BA01#
				±0.1pF	GRM1883C2A3R5BA01#					±0.25pF	GRM1882C2A5R3CA01#
				±0.25pF	GRM1883C2A3R5CA01#					±0.5pF	GRM1882C2A5R3DA01#
			3.6pF	±0.05pF	GRM1883C2A3R6WA01#					±0.05pF	GRM1882C2A5R4WA01#
				±0.1pF	GRM1883C2A3R6BA01#					±0.1pF	GRM1882C2A5R4BA01#
				±0.25pF	GRM1883C2A3R6CA01#					±0.25pF	GRM1882C2A5R4CA01#
			3.7pF	±0.05pF	GRM1883C2A3R7WA01#					±0.5pF	GRM1882C2A5R4DA01#
				±0.1pF	GRM1883C2A3R7BA01#					±0.05pF	GRM1882C2A5R5WA01#
				±0.25pF	GRM1883C2A3R7CA01#					±0.1pF	GRM1882C2A5R5BA01#
			3.8pF	±0.05pF	GRM1883C2A3R8WA01#					±0.25pF	GRM1882C2A5R5CA01#
				±0.1pF	GRM1883C2A3R8BA01#					±0.5pF	GRM1882C2A5R5DA01#
				±0.25pF	GRM1883C2A3R8CA01#					±0.05pF	GRM1882C2A5R6WA01#
			3.9pF	±0.05pF	GRM1883C2A3R9WA01#					±0.1pF	GRM1882C2A5R6BA01#
				±0.1pF	GRM1883C2A3R9BA01#					±0.25pF	GRM1882C2A5R6CA01#
				±0.25pF	GRM1883C2A3R9CA01#					±0.5pF	GRM1882C2A5R6DA01#
		CH	4.0pF	±0.05pF	GRM1882C2A4R0WA01#					±0.05pF	GRM1882C2A5R6WA01#
				±0.1pF	GRM1882C2A4R0BA01#					±0.1pF	GRM1882C2A5R6BA01#
				±0.25pF	GRM1882C2A4R0CA01#					±0.25pF	GRM1882C2A5R6CA01#
			4.1pF	±0.05pF	GRM1882C2A4R1WA01#					±0.5pF	GRM1882C2A5R6DA01#
				±0.1pF	GRM1882C2A4R1BA01#					±0.05pF	GRM1882C2A5R7WA01#
				±0.25pF	GRM1882C2A4R1CA01#					±0.1pF	GRM1882C2A5R7BA01#
			4.2pF	±0.05pF	GRM1882C2A4R2WA01#					±0.25pF	GRM1882C2A5R7CA01#
				±0.1pF	GRM1882C2A4R2BA01#					±0.5pF	GRM1882C2A5R7DA01#
				±0.25pF	GRM1882C2A4R2CA01#					±0.05pF	GRM1882C2A5R8WA01#
			4.3pF	±0.05pF	GRM1882C2A4R3WA01#					±0.1pF	GRM1882C2A5R8BA01#
				±0.1pF	GRM1882C2A4R3BA01#					±0.25pF	GRM1882C2A5R8CA01#
				±0.25pF	GRM1882C2A4R3CA01#					±0.5pF	GRM1882C2A5R8DA01#
			4.4pF	±0.05pF	GRM1882C2A4R4WA01#					±0.05pF	GRM1882C2A5R9WA01#
				±0.1pF	GRM1882C2A4R4BA01#					±0.1pF	GRM1882C2A5R9BA01#
				±0.25pF	GRM1882C2A4R4CA01#					±0.25pF	GRM1882C2A5R9CA01#
			4.5pF	±0.05pF	GRM1882C2A4R5WA01#					±0.5pF	GRM1882C2A5R9DA01#
				±0.1pF	GRM1882C2A4R5BA01#					±0.05pF	GRM1882C2A6R0WA01#
				±0.25pF	GRM1882C2A4R5CA01#					±0.1pF	GRM1882C2A6R0BA01#
			4.6pF	±0.05pF	GRM1882C2A4R6WA01#					±0.25pF	GRM1882C2A6R0CA01#
				±0.1pF	GRM1882C2A4R6BA01#					±0.5pF	GRM1882C2A6R0DA01#
				±0.25pF	GRM1882C2A4R6CA01#					±0.05pF	GRM1882C2A6R1WA01#
			4.7pF	±0.05pF	GRM1882C2A4R7WA01#					±0.1pF	GRM1882C2A6R1BA01#
				±0.1pF	GRM1882C2A4R7BA01#					±0.25pF	GRM1882C2A6R1CA01#
				±0.25pF	GRM1882C2A4R7CA01#					±0.5pF	GRM1882C2A6R1DA01#
			4.8pF	±0.05pF	GRM1882C2A4R8WA01#					±0.05pF	GRM1882C2A6R2WA01#
				±0.1pF	GRM1882C2A4R8BA01#					±0.1pF	GRM1882C2A6R2BA01#
				±0.25pF	GRM1882C2A4R8CA01#					±0.25pF	GRM1882C2A6R2CA01#
			4.9pF	±0.05pF	GRM1882C2A4R9WA01#					±0.5pF	GRM1882C2A6R2DA01#
				±0.1pF	GRM1882C2A4R9BA01#					±0.05pF	GRM1882C2A6R3WA01#
				±0.25pF	GRM1882C2A4R9CA01#					±0.1pF	GRM1882C2A6R3BA01#
			5.0pF	±0.05pF	GRM1882C2A5R0WA01#					±0.25pF	GRM1882C2A6R3CA01#
			±0.5pF	GRM1882C2A6R3DA01#							

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	CH	6.4pF	±0.05pF	GRM1882C2A6R4WA01#	0.9mm	100Vdc	CH	7.7pF	±0.25pF	GRM1882C2A7R7CA01#
				±0.1pF	GRM1882C2A6R4BA01#				±0.5pF	GRM1882C2A7R7DA01#	
				±0.25pF	GRM1882C2A6R4CA01#				±0.05pF	GRM1882C2A7R8WA01#	
				±0.5pF	GRM1882C2A6R4DA01#				±0.1pF	GRM1882C2A7R8BA01#	
			6.5pF	±0.05pF	GRM1882C2A6R5WA01#				±0.25pF	GRM1882C2A7R8CA01#	
				±0.1pF	GRM1882C2A6R5BA01#				±0.5pF	GRM1882C2A7R8DA01#	
				±0.25pF	GRM1882C2A6R5CA01#				±0.05pF	GRM1882C2A7R9WA01#	
				±0.5pF	GRM1882C2A6R5DA01#				±0.1pF	GRM1882C2A7R9BA01#	
			6.6pF	±0.05pF	GRM1882C2A6R6WA01#				±0.25pF	GRM1882C2A7R9CA01#	
				±0.1pF	GRM1882C2A6R6BA01#				±0.5pF	GRM1882C2A7R9DA01#	
				±0.25pF	GRM1882C2A6R6CA01#				±0.05pF	GRM1882C2A8R0WA01#	
				±0.5pF	GRM1882C2A6R6DA01#				±0.1pF	GRM1882C2A8R0BA01#	
			6.7pF	±0.05pF	GRM1882C2A6R7WA01#				±0.25pF	GRM1882C2A8R0CA01#	
				±0.1pF	GRM1882C2A6R7BA01#				±0.5pF	GRM1882C2A8R0DA01#	
				±0.25pF	GRM1882C2A6R7CA01#				±0.05pF	GRM1882C2A8R1WA01#	
				±0.5pF	GRM1882C2A6R7DA01#				±0.1pF	GRM1882C2A8R1BA01#	
			6.8pF	±0.05pF	GRM1882C2A6R8WA01#				±0.25pF	GRM1882C2A8R1CA01#	
				±0.1pF	GRM1882C2A6R8BA01#				±0.5pF	GRM1882C2A8R1DA01#	
				±0.25pF	GRM1882C2A6R8CA01#				±0.05pF	GRM1882C2A8R2WA01#	
				±0.5pF	GRM1882C2A6R8DA01#				±0.1pF	GRM1882C2A8R2BA01#	
			6.9pF	±0.05pF	GRM1882C2A6R9WA01#				±0.25pF	GRM1882C2A8R2CA01#	
				±0.1pF	GRM1882C2A6R9BA01#				±0.5pF	GRM1882C2A8R2DA01#	
				±0.25pF	GRM1882C2A6R9CA01#				±0.05pF	GRM1882C2A8R3WA01#	
				±0.5pF	GRM1882C2A6R9DA01#				±0.1pF	GRM1882C2A8R3BA01#	
			7.0pF	±0.05pF	GRM1882C2A7R0WA01#				±0.25pF	GRM1882C2A8R3CA01#	
				±0.1pF	GRM1882C2A7R0BA01#				±0.5pF	GRM1882C2A8R3DA01#	
				±0.25pF	GRM1882C2A7R0CA01#				±0.05pF	GRM1882C2A8R4WA01#	
				±0.5pF	GRM1882C2A7R0DA01#				±0.1pF	GRM1882C2A8R4BA01#	
			7.1pF	±0.05pF	GRM1882C2A7R1WA01#				±0.25pF	GRM1882C2A8R4CA01#	
				±0.1pF	GRM1882C2A7R1BA01#				±0.5pF	GRM1882C2A8R4DA01#	
				±0.25pF	GRM1882C2A7R1CA01#				±0.05pF	GRM1882C2A8R5WA01#	
				±0.5pF	GRM1882C2A7R1DA01#				±0.1pF	GRM1882C2A8R5BA01#	
			7.2pF	±0.05pF	GRM1882C2A7R2WA01#				±0.25pF	GRM1882C2A8R5CA01#	
				±0.1pF	GRM1882C2A7R2BA01#				±0.5pF	GRM1882C2A8R5DA01#	
				±0.25pF	GRM1882C2A7R2CA01#				±0.05pF	GRM1882C2A8R6WA01#	
				±0.5pF	GRM1882C2A7R2DA01#				±0.1pF	GRM1882C2A8R6BA01#	
			7.3pF	±0.05pF	GRM1882C2A7R3WA01#				±0.25pF	GRM1882C2A8R6CA01#	
				±0.1pF	GRM1882C2A7R3BA01#				±0.5pF	GRM1882C2A8R6DA01#	
				±0.25pF	GRM1882C2A7R3CA01#				±0.05pF	GRM1882C2A8R7WA01#	
				±0.5pF	GRM1882C2A7R3DA01#				±0.1pF	GRM1882C2A8R7BA01#	
			7.4pF	±0.05pF	GRM1882C2A7R4WA01#				±0.25pF	GRM1882C2A8R7CA01#	
				±0.1pF	GRM1882C2A7R4BA01#				±0.5pF	GRM1882C2A8R7DA01#	
				±0.25pF	GRM1882C2A7R4CA01#				±0.05pF	GRM1882C2A8R8WA01#	
				±0.5pF	GRM1882C2A7R4DA01#				±0.1pF	GRM1882C2A8R8BA01#	
			7.5pF	±0.05pF	GRM1882C2A7R5WA01#				±0.25pF	GRM1882C2A8R8CA01#	
				±0.1pF	GRM1882C2A7R5BA01#				±0.5pF	GRM1882C2A8R8DA01#	
				±0.25pF	GRM1882C2A7R5CA01#				±0.05pF	GRM1882C2A8R9WA01#	
				±0.5pF	GRM1882C2A7R5DA01#				±0.1pF	GRM1882C2A8R9BA01#	
			7.6pF	±0.05pF	GRM1882C2A7R6WA01#				±0.25pF	GRM1882C2A8R9CA01#	
				±0.1pF	GRM1882C2A7R6BA01#				±0.5pF	GRM1882C2A8R9DA01#	
				±0.25pF	GRM1882C2A7R6CA01#				±0.05pF	GRM1882C2A9R0WA01#	
				±0.5pF	GRM1882C2A7R6DA01#				±0.1pF	GRM1882C2A9R0BA01#	
			7.7pF	±0.05pF	GRM1882C2A7R7WA01#				±0.25pF	GRM1882C2A9R0CA01#	
				±0.1pF	GRM1882C2A7R7BA01#				±0.5pF	GRM1882C2A9R0DA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	CH	9.1pF	±0.05pF	GRM1882C2A9R1WA01#
				±0.1pF	GRM1882C2A9R1BA01#
				±0.25pF	GRM1882C2A9R1CA01#
				±0.5pF	GRM1882C2A9R1DA01#
			9.2pF	±0.05pF	GRM1882C2A9R2WA01#
				±0.1pF	GRM1882C2A9R2BA01#
				±0.25pF	GRM1882C2A9R2CA01#
				±0.5pF	GRM1882C2A9R2DA01#
			9.3pF	±0.05pF	GRM1882C2A9R3WA01#
				±0.1pF	GRM1882C2A9R3BA01#
				±0.25pF	GRM1882C2A9R3CA01#
				±0.5pF	GRM1882C2A9R3DA01#
			9.4pF	±0.05pF	GRM1882C2A9R4WA01#
				±0.1pF	GRM1882C2A9R4BA01#
				±0.25pF	GRM1882C2A9R4CA01#
				±0.5pF	GRM1882C2A9R4DA01#
			9.5pF	±0.05pF	GRM1882C2A9R5WA01#
				±0.1pF	GRM1882C2A9R5BA01#
				±0.25pF	GRM1882C2A9R5CA01#
				±0.5pF	GRM1882C2A9R5DA01#
			9.6pF	±0.05pF	GRM1882C2A9R6WA01#
				±0.1pF	GRM1882C2A9R6BA01#
				±0.25pF	GRM1882C2A9R6CA01#
				±0.5pF	GRM1882C2A9R6DA01#
			9.7pF	±0.05pF	GRM1882C2A9R7WA01#
				±0.1pF	GRM1882C2A9R7BA01#
				±0.25pF	GRM1882C2A9R7CA01#
				±0.5pF	GRM1882C2A9R7DA01#
			9.8pF	±0.05pF	GRM1882C2A9R8WA01#
				±0.1pF	GRM1882C2A9R8BA01#
				±0.25pF	GRM1882C2A9R8CA01#
				±0.5pF	GRM1882C2A9R8DA01#
			9.9pF	±0.05pF	GRM1882C2A9R9WA01#
				±0.1pF	GRM1882C2A9R9BA01#
				±0.25pF	GRM1882C2A9R9CA01#
				±0.5pF	GRM1882C2A9R9DA01#
10pF	±5%				GRM1882C2A100JA01#
12pF	±5%				GRM1882C2A120JA01#
15pF	±5%				GRM1882C2A150JA01#
18pF	±5%				GRM1882C2A180JA01#
22pF	±5%				GRM1882C2A220JA01#
27pF	±5%				GRM1882C2A270JA01#
33pF	±5%				GRM1882C2A330JA01#
39pF	±5%				GRM1882C2A390JA01#
47pF	±5%				GRM1882C2A470JA01#
56pF	±5%				GRM1882C2A560JA01#
68pF	±5%				GRM1882C2A680JA01#
82pF	±5%				GRM1882C2A820JA01#
100pF	±5%				GRM1882C2A101JA01#
120pF	±5%				GRM1882C2A121JA01#
150pF	±5%				GRM1882C2A151JA01#
180pF	±5%				GRM1882C2A181JA01#
220pF	±5%				GRM1882C2A221JA01#
270pF	±5%				GRM1882C2A271JA01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	CH	330pF	±5%	GRM1882C2A331JA01#
				±5%	GRM1882C2A391JA01#
				±5%	GRM1882C2A471JA01#
				±5%	GRM1882C2A561JA01#
			680pF	±5%	GRM1882C2A681JA01#
				±5%	GRM1882C2A821JA01#
				±5%	GRM1882C2A102JA01#
				±5%	GRM1882C2A122JA01#
				±5%	GRM1882C2A152JA01#
				±5%	GRM1885C1HR50WA01#
50Vdc	COG	0.50pF	±0.05pF	GRM1885C1HR50BA01#	
			±0.1pF	GRM1885C1HR50BA01#	
		0.60pF	±0.05pF	GRM1885C1HR60WA01#	
			±0.1pF	GRM1885C1HR60BA01#	
		0.70pF	±0.05pF	GRM1885C1HR70WA01#	
			±0.1pF	GRM1885C1HR70BA01#	
			±0.05pF	GRM1885C1HR80WA01#	
			±0.1pF	GRM1885C1HR80BA01#	
		0.90pF	±0.05pF	GRM1885C1HR90WA01#	
			±0.1pF	GRM1885C1HR90BA01#	
			±0.05pF	GRM1885C1H1ROWA01#	
			±0.1pF	GRM1885C1H1R0BA01#	
		1.0pF	±0.25pF	GRM1885C1H1ROCA01#	
			±0.1pF	GRM1885C1H1R1WA01#	
			±0.25pF	GRM1885C1H1R1CA01#	
			±0.1pF	GRM1885C1H1R2WA01#	
		1.2pF	±0.25pF	GRM1885C1H1R2BA01#	
			±0.1pF	GRM1885C1H1R2CA01#	
			±0.1pF	GRM1885C1H1R3WA01#	
			±0.25pF	GRM1885C1H1R3CA01#	
		1.3pF	±0.1pF	GRM1885C1H1R4WA01#	
			±0.25pF	GRM1885C1H1R4CA01#	
			±0.1pF	GRM1885C1H1R5WA01#	
			±0.25pF	GRM1885C1H1R5CA01#	
		1.4pF	±0.1pF	GRM1885C1H1R6WA01#	
			±0.25pF	GRM1885C1H1R6CA01#	
			±0.1pF	GRM1885C1H1R7WA01#	
			±0.25pF	GRM1885C1H1R7CA01#	
		1.5pF	±0.1pF	GRM1885C1H1R8WA01#	
			±0.25pF	GRM1885C1H1R8CA01#	
			±0.1pF	GRM1885C1H1R9WA01#	
			±0.25pF	GRM1885C1H1R9CA01#	
		1.6pF	±0.1pF	GRM1885C1H1R6BA01#	
			±0.25pF	GRM1885C1H1R6CA01#	
			±0.1pF	GRM1885C1H1R7BA01#	
			±0.25pF	GRM1885C1H1R7CA01#	
		1.7pF	±0.1pF	GRM1885C1H1R8WA01#	
			±0.25pF	GRM1885C1H1R8CA01#	
			±0.1pF	GRM1885C1H1R9WA01#	
			±0.25pF	GRM1885C1H1R9CA01#	
		1.8pF	±0.1pF	GRM1885C1H1R8BA01#	
			±0.25pF	GRM1885C1H1R8CA01#	
			±0.1pF	GRM1885C1H1R9WA01#	
			±0.25pF	GRM1885C1H1R9CA01#	
		1.9pF	±0.1pF	GRM1885C1H1R9BA01#	
			±0.25pF	GRM1885C1H1R9CA01#	
			±0.1pF	GRM1885C1H2R0WA01#	
			±0.25pF	GRM1885C1H2R0BA01#	
		2.0pF	±0.1pF	GRM1885C1H2R0CA01#	
			±0.25pF	GRM1885C1H2R0CA01#	
			±0.1pF	GRM1885C1H2R1WA01#	
			±0.25pF	GRM1885C1H2R1BA01#	
		2.1pF	±0.1pF	GRM1885C1H2R1CA01#	
			±0.25pF	GRM1885C1H2R1BA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	COG	2.1pF	±0.25pF	GRM1885C1H2R1CA01#	0.9mm	50Vdc	COG	3.9pF	±0.25pF	GRM1885C1H3R9CA01#
			2.2pF	±0.05pF	GRM1885C1H2R2WA01#				4.0pF	±0.05pF	GRM1885C1H4R0WA01#
				±0.1pF	GRM1885C1H2R2BA01#					±0.1pF	GRM1885C1H4R0BA01#
				±0.25pF	GRM1885C1H2R2CA01#					±0.25pF	GRM1885C1H4R0CA01#
			2.3pF	±0.05pF	GRM1885C1H2R3WA01#				4.1pF	±0.05pF	GRM1885C1H4R1WA01#
				±0.1pF	GRM1885C1H2R3BA01#					±0.1pF	GRM1885C1H4R1BA01#
				±0.25pF	GRM1885C1H2R3CA01#					±0.25pF	GRM1885C1H4R1CA01#
			2.4pF	±0.05pF	GRM1885C1H2R4WA01#				4.2pF	±0.05pF	GRM1885C1H4R2WA01#
				±0.1pF	GRM1885C1H2R4BA01#					±0.1pF	GRM1885C1H4R2BA01#
				±0.25pF	GRM1885C1H2R4CA01#					±0.25pF	GRM1885C1H4R2CA01#
			2.5pF	±0.05pF	GRM1885C1H2R5WA01#				4.3pF	±0.05pF	GRM1885C1H4R3WA01#
				±0.1pF	GRM1885C1H2R5BA01#					±0.1pF	GRM1885C1H4R3BA01#
				±0.25pF	GRM1885C1H2R5CA01#					±0.25pF	GRM1885C1H4R3CA01#
			2.6pF	±0.05pF	GRM1885C1H2R6WA01#				4.4pF	±0.05pF	GRM1885C1H4R4WA01#
				±0.1pF	GRM1885C1H2R6BA01#					±0.1pF	GRM1885C1H4R4BA01#
				±0.25pF	GRM1885C1H2R6CA01#					±0.25pF	GRM1885C1H4R4CA01#
			2.7pF	±0.05pF	GRM1885C1H2R7WA01#				4.5pF	±0.05pF	GRM1885C1H4R5WA01#
				±0.1pF	GRM1885C1H2R7BA01#					±0.1pF	GRM1885C1H4R5BA01#
				±0.25pF	GRM1885C1H2R7CA01#					±0.25pF	GRM1885C1H4R5CA01#
			2.8pF	±0.05pF	GRM1885C1H2R8WA01#				4.6pF	±0.05pF	GRM1885C1H4R6WA01#
				±0.1pF	GRM1885C1H2R8BA01#					±0.1pF	GRM1885C1H4R6BA01#
				±0.25pF	GRM1885C1H2R8CA01#					±0.25pF	GRM1885C1H4R6CA01#
			2.9pF	±0.05pF	GRM1885C1H2R9WA01#				4.7pF	±0.05pF	GRM1885C1H4R7WA01#
				±0.1pF	GRM1885C1H2R9BA01#					±0.1pF	GRM1885C1H4R7BA01#
				±0.25pF	GRM1885C1H2R9CA01#					±0.25pF	GRM1885C1H4R7CA01#
			3.0pF	±0.05pF	GRM1885C1H3R0WA01#				4.8pF	±0.05pF	GRM1885C1H4R8WA01#
				±0.1pF	GRM1885C1H3R0BA01#					±0.1pF	GRM1885C1H4R8BA01#
				±0.25pF	GRM1885C1H3R0CA01#					±0.25pF	GRM1885C1H4R8CA01#
			3.1pF	±0.05pF	GRM1885C1H3R1WA01#				4.9pF	±0.05pF	GRM1885C1H4R9WA01#
				±0.1pF	GRM1885C1H3R1BA01#					±0.1pF	GRM1885C1H4R9BA01#
				±0.25pF	GRM1885C1H3R1CA01#					±0.25pF	GRM1885C1H4R9CA01#
			3.2pF	±0.05pF	GRM1885C1H3R2WA01#				5.0pF	±0.05pF	GRM1885C1H5R0WA01#
				±0.1pF	GRM1885C1H3R2BA01#					±0.1pF	GRM1885C1H5R0BA01#
				±0.25pF	GRM1885C1H3R2CA01#					±0.25pF	GRM1885C1H5R0CA01#
			3.3pF	±0.05pF	GRM1885C1H3R3WA01#				5.1pF	±0.05pF	GRM1885C1H5R1WA01#
				±0.1pF	GRM1885C1H3R3BA01#					±0.1pF	GRM1885C1H5R1BA01#
				±0.25pF	GRM1885C1H3R3CA01#					±0.25pF	GRM1885C1H5R1CA01#
			3.4pF	±0.05pF	GRM1885C1H3R4WA01#				5.2pF	±0.05pF	GRM1885C1H5R2WA01#
				±0.1pF	GRM1885C1H3R4BA01#					±0.1pF	GRM1885C1H5R2BA01#
				±0.25pF	GRM1885C1H3R4CA01#					±0.25pF	GRM1885C1H5R2CA01#
			3.5pF	±0.05pF	GRM1885C1H3R5WA01#				5.3pF	±0.05pF	GRM1885C1H5R3WA01#
				±0.1pF	GRM1885C1H3R5BA01#					±0.1pF	GRM1885C1H5R3BA01#
				±0.25pF	GRM1885C1H3R5CA01#					±0.25pF	GRM1885C1H5R3CA01#
			3.6pF	±0.05pF	GRM1885C1H3R6WA01#				5.4pF	±0.05pF	GRM1885C1H5R4WA01#
				±0.1pF	GRM1885C1H3R6BA01#					±0.1pF	GRM1885C1H5R4BA01#
				±0.25pF	GRM1885C1H3R6CA01#					±0.25pF	GRM1885C1H5R4CA01#
			3.7pF	±0.05pF	GRM1885C1H3R7WA01#				5.5pF	±0.05pF	GRM1885C1H5R5WA01#
				±0.1pF	GRM1885C1H3R7BA01#					±0.1pF	GRM1885C1H5R5BA01#
				±0.25pF	GRM1885C1H3R7CA01#					±0.25pF	GRM1885C1H5R5CA01#
			3.8pF	±0.05pF	GRM1885C1H3R8WA01#					±0.5pF	GRM1885C1H5R5DA01#
				±0.1pF	GRM1885C1H3R8BA01#					±0.5pF	GRM1885C1H5R5DA01#
				±0.25pF	GRM1885C1H3R8CA01#					±0.5pF	GRM1885C1H5R5DA01#
			3.9pF	±0.05pF	GRM1885C1H3R9WA01#					±0.1pF	GRM1885C1H5R9BA01#
				±0.1pF	GRM1885C1H3R9BA01#					±0.25pF	GRM1885C1H5R9CA01#
										±0.5pF	GRM1885C1H5R9DA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	COG	5.6pF	±0.05pF	GRM1885C1H5R6WA01#	0.9mm	50Vdc	COG	6.9pF	±0.25pF	GRM1885C1H6R9CA01#
				±0.1pF	GRM1885C1H5R6BA01#					±0.5pF	GRM1885C1H6R9DA01#
				±0.25pF	GRM1885C1H5R6CA01#					±0.05pF	GRM1885C1H7R0WA01#
				±0.5pF	GRM1885C1H5R6DA01#					±0.1pF	GRM1885C1H7R0BA01#
			5.7pF	±0.05pF	GRM1885C1H5R7WA01#					±0.25pF	GRM1885C1H7R0CA01#
				±0.1pF	GRM1885C1H5R7BA01#					±0.5pF	GRM1885C1H7R0DA01#
				±0.25pF	GRM1885C1H5R7CA01#					±0.05pF	GRM1885C1H7R1WA01#
				±0.5pF	GRM1885C1H5R7DA01#					±0.1pF	GRM1885C1H7R1BA01#
			5.8pF	±0.05pF	GRM1885C1H5R8WA01#					±0.25pF	GRM1885C1H7R1CA01#
				±0.1pF	GRM1885C1H5R8BA01#					±0.5pF	GRM1885C1H7R1DA01#
				±0.25pF	GRM1885C1H5R8CA01#					±0.05pF	GRM1885C1H7R2WA01#
				±0.5pF	GRM1885C1H5R8DA01#					±0.1pF	GRM1885C1H7R2BA01#
			5.9pF	±0.05pF	GRM1885C1H5R9WA01#					±0.25pF	GRM1885C1H7R2CA01#
				±0.1pF	GRM1885C1H5R9BA01#					±0.5pF	GRM1885C1H7R2DA01#
				±0.25pF	GRM1885C1H5R9CA01#					±0.05pF	GRM1885C1H7R3WA01#
				±0.5pF	GRM1885C1H5R9DA01#					±0.1pF	GRM1885C1H7R3BA01#
			6.0pF	±0.05pF	GRM1885C1H6R0WA01#					±0.25pF	GRM1885C1H7R3CA01#
				±0.1pF	GRM1885C1H6R0BA01#					±0.5pF	GRM1885C1H7R3DA01#
				±0.25pF	GRM1885C1H6R0CA01#					±0.05pF	GRM1885C1H7R4WA01#
				±0.5pF	GRM1885C1H6R0DA01#					±0.1pF	GRM1885C1H7R4BA01#
			6.1pF	±0.05pF	GRM1885C1H6R1WA01#					±0.25pF	GRM1885C1H7R4CA01#
				±0.1pF	GRM1885C1H6R1BA01#					±0.5pF	GRM1885C1H7R4DA01#
				±0.25pF	GRM1885C1H6R1CA01#					±0.05pF	GRM1885C1H7R5WA01#
				±0.5pF	GRM1885C1H6R1DA01#					±0.1pF	GRM1885C1H7R5BA01#
			6.2pF	±0.05pF	GRM1885C1H6R2WA01#					±0.25pF	GRM1885C1H7R5CA01#
				±0.1pF	GRM1885C1H6R2BA01#					±0.5pF	GRM1885C1H7R5DA01#
				±0.25pF	GRM1885C1H6R2CA01#					±0.05pF	GRM1885C1H7R6WA01#
				±0.5pF	GRM1885C1H6R2DA01#					±0.1pF	GRM1885C1H7R6BA01#
			6.3pF	±0.05pF	GRM1885C1H6R3WA01#					±0.25pF	GRM1885C1H7R6CA01#
				±0.1pF	GRM1885C1H6R3BA01#					±0.5pF	GRM1885C1H7R6DA01#
				±0.25pF	GRM1885C1H6R3CA01#					±0.05pF	GRM1885C1H7R7WA01#
				±0.5pF	GRM1885C1H6R3DA01#					±0.1pF	GRM1885C1H7R7BA01#
			6.4pF	±0.05pF	GRM1885C1H6R4WA01#					±0.25pF	GRM1885C1H7R7CA01#
				±0.1pF	GRM1885C1H6R4BA01#					±0.5pF	GRM1885C1H7R7DA01#
				±0.25pF	GRM1885C1H6R4CA01#					±0.05pF	GRM1885C1H7R8WA01#
				±0.5pF	GRM1885C1H6R4DA01#					±0.1pF	GRM1885C1H7R8BA01#
			6.5pF	±0.05pF	GRM1885C1H6R5WA01#					±0.25pF	GRM1885C1H7R8CA01#
				±0.1pF	GRM1885C1H6R5BA01#					±0.5pF	GRM1885C1H7R8DA01#
				±0.25pF	GRM1885C1H6R5CA01#					±0.05pF	GRM1885C1H7R9WA01#
				±0.5pF	GRM1885C1H6R5DA01#					±0.1pF	GRM1885C1H7R9BA01#
			6.6pF	±0.05pF	GRM1885C1H6R6WA01#					±0.25pF	GRM1885C1H7R9CA01#
				±0.1pF	GRM1885C1H6R6BA01#					±0.5pF	GRM1885C1H7R9DA01#
				±0.25pF	GRM1885C1H6R6CA01#					±0.05pF	GRM1885C1H8R0WA01#
				±0.5pF	GRM1885C1H6R6DA01#					±0.1pF	GRM1885C1H8R0BA01#
			6.7pF	±0.05pF	GRM1885C1H6R7WA01#					±0.25pF	GRM1885C1H8R0CA01#
				±0.1pF	GRM1885C1H6R7BA01#					±0.5pF	GRM1885C1H8R0DA01#
				±0.25pF	GRM1885C1H6R7CA01#					±0.05pF	GRM1885C1H8R1WA01#
				±0.5pF	GRM1885C1H6R7DA01#					±0.1pF	GRM1885C1H8R1BA01#
			6.8pF	±0.05pF	GRM1885C1H6R8WA01#					±0.25pF	GRM1885C1H8R1CA01#
				±0.1pF	GRM1885C1H6R8BA01#					±0.5pF	GRM1885C1H8R1DA01#
				±0.25pF	GRM1885C1H6R8CA01#					±0.05pF	GRM1885C1H8R2WA01#
				±0.5pF	GRM1885C1H6R8DA01#					±0.1pF	GRM1885C1H8R2BA01#
			6.9pF	±0.05pF	GRM1885C1H6R9WA01#					±0.25pF	GRM1885C1H8R2CA01#
				±0.1pF	GRM1885C1H6R9BA01#					±0.5pF	GRM1885C1H8R2DA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	COG	8.3pF	±0.05pF	GRM1885C1H8R3WA01#	0.9mm	50Vdc	COG	9.6pF	±0.25pF	GRM1885C1H9R6CA01#
				±0.1pF	GRM1885C1H8R3BA01#				±0.5pF	GRM1885C1H9R6DA01#	
				±0.25pF	GRM1885C1H8R3CA01#				±0.05pF	GRM1885C1H9R7WA01#	
				±0.5pF	GRM1885C1H8R3DA01#				±0.1pF	GRM1885C1H9R7BA01#	
			8.4pF	±0.05pF	GRM1885C1H8R4WA01#				±0.25pF	GRM1885C1H9R7CA01#	
				±0.1pF	GRM1885C1H8R4BA01#				±0.5pF	GRM1885C1H9R7DA01#	
				±0.25pF	GRM1885C1H8R4CA01#				±0.05pF	GRM1885C1H9R8WA01#	
				±0.5pF	GRM1885C1H8R4DA01#				±0.1pF	GRM1885C1H9R8BA01#	
			8.5pF	±0.05pF	GRM1885C1H8R5WA01#				±0.25pF	GRM1885C1H9R8CA01#	
				±0.1pF	GRM1885C1H8R5BA01#				±0.5pF	GRM1885C1H9R8DA01#	
				±0.25pF	GRM1885C1H8R5CA01#				±0.05pF	GRM1885C1H9R9WA01#	
				±0.5pF	GRM1885C1H8R5DA01#				±0.1pF	GRM1885C1H9R9BA01#	
			8.6pF	±0.05pF	GRM1885C1H8R6WA01#				±0.25pF	GRM1885C1H9R9CA01#	
				±0.1pF	GRM1885C1H8R6BA01#				±0.5pF	GRM1885C1H9R9DA01#	
				±0.25pF	GRM1885C1H8R6CA01#				±5%	GRM1885C1H100JA01#	
				±0.5pF	GRM1885C1H8R6DA01#				12pF	±5%	GRM1885C1H120JA01#
			8.7pF	±0.05pF	GRM1885C1H8R7WA01#				15pF	±5%	GRM1885C1H150JA01#
				±0.1pF	GRM1885C1H8R7BA01#				18pF	±5%	GRM1885C1H180JA01#
				±0.25pF	GRM1885C1H8R7CA01#				22pF	±5%	GRM1885C1H220JA01#
				±0.5pF	GRM1885C1H8R7DA01#				27pF	±5%	GRM1885C1H270JA01#
			8.8pF	±0.05pF	GRM1885C1H8R8WA01#				33pF	±5%	GRM1885C1H330JA01#
				±0.1pF	GRM1885C1H8R8BA01#				39pF	±5%	GRM1885C1H390JA01#
				±0.25pF	GRM1885C1H8R8CA01#				47pF	±5%	GRM1885C1H470JA01#
				±0.5pF	GRM1885C1H8R8DA01#				56pF	±5%	GRM1885C1H560JA01#
			8.9pF	±0.05pF	GRM1885C1H8R9WA01#				68pF	±5%	GRM1885C1H680JA01#
				±0.1pF	GRM1885C1H8R9BA01#				82pF	±5%	GRM1885C1H820JA01#
				±0.25pF	GRM1885C1H8R9CA01#				100pF	±5%	GRM1885C1H101JA01#
				±0.5pF	GRM1885C1H8R9DA01#				120pF	±5%	GRM1885C1H121JA01#
			9.0pF	±0.05pF	GRM1885C1H9R0WA01#				150pF	±5%	GRM1885C1H151JA01#
				±0.1pF	GRM1885C1H9R0BA01#				180pF	±5%	GRM1885C1H181JA01#
				±0.25pF	GRM1885C1H9R0CA01#				220pF	±5%	GRM1885C1H221JA01#
				±0.5pF	GRM1885C1H9R0DA01#				270pF	±5%	GRM1885C1H271JA01#
			9.1pF	±0.05pF	GRM1885C1H9R1WA01#				330pF	±5%	GRM1885C1H331JA01#
				±0.1pF	GRM1885C1H9R1BA01#				390pF	±5%	GRM1885C1H391JA01#
				±0.25pF	GRM1885C1H9R1CA01#				470pF	±5%	GRM1885C1H471JA01#
				±0.5pF	GRM1885C1H9R1DA01#				560pF	±5%	GRM1885C1H561JA01#
			9.2pF	±0.05pF	GRM1885C1H9R2WA01#				680pF	±5%	GRM1885C1H681JA01#
				±0.1pF	GRM1885C1H9R2BA01#				820pF	±5%	GRM1885C1H821JA01#
				±0.25pF	GRM1885C1H9R2CA01#				1000pF	±5%	GRM1885C1H102JA01#
				±0.5pF	GRM1885C1H9R2DA01#				1200pF	±5%	GRM1885C1H122JA01#
			9.3pF	±0.05pF	GRM1885C1H9R3WA01#				1500pF	±5%	GRM1885C1H152JA01#
				±0.1pF	GRM1885C1H9R3BA01#				1800pF	±5%	GRM1885C1H182JA01#
				±0.25pF	GRM1885C1H9R3CA01#				2200pF	±5%	GRM1885C1H222JA01#
				±0.5pF	GRM1885C1H9R3DA01#				2700pF	±5%	GRM1885C1H272JA01#
			9.4pF	±0.05pF	GRM1885C1H9R4WA01#				3300pF	±5%	GRM1885C1H332JA01#
				±0.1pF	GRM1885C1H9R4BA01#				3900pF	±5%	GRM1885C1H392JA01#
				±0.25pF	GRM1885C1H9R4CA01#				4700pF	±5%	GRM1885C1H472JA01#
				±0.5pF	GRM1885C1H9R4DA01#				5600pF	±5%	GRM1885C1H562JA01#
			9.5pF	±0.05pF	GRM1885C1H9R5WA01#				6800pF	±5%	GRM1885C1H682JA01#
				±0.1pF	GRM1885C1H9R5BA01#				8200pF	±5%	GRM1885C1H822JA01#
				±0.25pF	GRM1885C1H9R5CA01#				10000pF	±5%	GRM1885C1H103JA01#
				±0.5pF	GRM1885C1H9R5DA01#				CK	0.50pF	±0.05pF GRM1884C1HR50WA01#
			9.6pF	±0.05pF	GRM1885C1H9R6WA01#					±0.1pF	GRM1884C1HR50BA01#
				±0.1pF	GRM1885C1H9R6BA01#					0.60pF	±0.05pF GRM1884C1HR60WA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	CK	0.60pF	±0.1pF	GRM1884C1HR60BA01#	0.9mm	50Vdc	CJ	2.5pF	±0.25pF	GRM1883C1H2R5CA01#
			0.70pF	±0.05pF	GRM1884C1HR70WA01#				2.6pF	±0.05pF	GRM1883C1H2R6WA01#
				±0.1pF	GRM1884C1HR70BA01#					±0.1pF	GRM1883C1H2R6BA01#
			0.80pF	±0.05pF	GRM1884C1HR80WA01#					±0.25pF	GRM1883C1H2R6CA01#
				±0.1pF	GRM1884C1HR80BA01#					±0.05pF	GRM1883C1H2R7WA01#
			0.90pF	±0.05pF	GRM1884C1HR90WA01#					±0.1pF	GRM1883C1H2R7BA01#
				±0.1pF	GRM1884C1HR90BA01#					±0.25pF	GRM1883C1H2R7CA01#
			1.0pF	±0.05pF	GRM1884C1H1R0WA01#					±0.05pF	GRM1883C1H2R8WA01#
				±0.1pF	GRM1884C1H1R0BA01#					±0.1pF	GRM1883C1H2R8BA01#
				±0.25pF	GRM1884C1H1R0CA01#					±0.25pF	GRM1883C1H2R8CA01#
			1.1pF	±0.05pF	GRM1884C1H1R1WA01#					±0.05pF	GRM1883C1H2R9WA01#
				±0.1pF	GRM1884C1H1R1BA01#					±0.1pF	GRM1883C1H2R9BA01#
				±0.25pF	GRM1884C1H1R1CA01#					±0.25pF	GRM1883C1H2R9CA01#
			1.2pF	±0.05pF	GRM1884C1H1R2WA01#					±0.05pF	GRM1883C1H3R0WA01#
				±0.1pF	GRM1884C1H1R2BA01#					±0.1pF	GRM1883C1H3R0BA01#
				±0.25pF	GRM1884C1H1R2CA01#					±0.25pF	GRM1883C1H3R0CA01#
			1.3pF	±0.05pF	GRM1884C1H1R3WA01#					±0.05pF	GRM1883C1H3R1WA01#
				±0.1pF	GRM1884C1H1R3BA01#					±0.1pF	GRM1883C1H3R1BA01#
				±0.25pF	GRM1884C1H1R3CA01#					±0.25pF	GRM1883C1H3R1CA01#
			1.4pF	±0.05pF	GRM1884C1H1R4WA01#					±0.05pF	GRM1883C1H3R2WA01#
				±0.1pF	GRM1884C1H1R4BA01#					±0.1pF	GRM1883C1H3R2BA01#
				±0.25pF	GRM1884C1H1R4CA01#					±0.25pF	GRM1883C1H3R2CA01#
			1.5pF	±0.05pF	GRM1884C1H1R5WA01#					±0.05pF	GRM1883C1H3R3WA01#
				±0.1pF	GRM1884C1H1R5BA01#					±0.1pF	GRM1883C1H3R3BA01#
				±0.25pF	GRM1884C1H1R5CA01#					±0.25pF	GRM1883C1H3R3CA01#
			1.6pF	±0.05pF	GRM1884C1H1R6WA01#					±0.05pF	GRM1883C1H3R4WA01#
				±0.1pF	GRM1884C1H1R6BA01#					±0.1pF	GRM1883C1H3R4BA01#
				±0.25pF	GRM1884C1H1R6CA01#					±0.25pF	GRM1883C1H3R4CA01#
			1.7pF	±0.05pF	GRM1884C1H1R7WA01#					±0.05pF	GRM1883C1H3R5WA01#
				±0.1pF	GRM1884C1H1R7BA01#					±0.1pF	GRM1883C1H3R5BA01#
				±0.25pF	GRM1884C1H1R7CA01#					±0.25pF	GRM1883C1H3R5CA01#
			1.8pF	±0.05pF	GRM1884C1H1R8WA01#					±0.05pF	GRM1883C1H3R4WA01#
				±0.1pF	GRM1884C1H1R8BA01#					±0.1pF	GRM1883C1H3R4BA01#
				±0.25pF	GRM1884C1H1R8CA01#					±0.25pF	GRM1883C1H3R4CA01#
			1.9pF	±0.05pF	GRM1884C1H1R9WA01#					±0.05pF	GRM1883C1H3R5WA01#
				±0.1pF	GRM1884C1H1R9BA01#					±0.1pF	GRM1883C1H3R5BA01#
				±0.25pF	GRM1884C1H1R9CA01#					±0.25pF	GRM1883C1H3R5CA01#
			2.0pF	±0.05pF	GRM1884C1H2R0WA01#					±0.05pF	GRM1883C1H3R6WA01#
				±0.1pF	GRM1884C1H2R0BA01#					±0.1pF	GRM1883C1H3R6BA01#
				±0.25pF	GRM1884C1H2R0CA01#					±0.25pF	GRM1883C1H3R6CA01#
		CJ	2.1pF	±0.05pF	GRM1883C1H2R1WA01#					±0.05pF	GRM1883C1H3R7WA01#
				±0.1pF	GRM1883C1H2R1BA01#					±0.1pF	GRM1883C1H3R7BA01#
				±0.25pF	GRM1883C1H2R1CA01#					±0.25pF	GRM1883C1H3R7CA01#
			2.2pF	±0.05pF	GRM1883C1H2R2WA01#					±0.05pF	GRM1883C1H3R8WA01#
				±0.1pF	GRM1883C1H2R2BA01#					±0.1pF	GRM1883C1H3R8BA01#
				±0.25pF	GRM1883C1H2R2CA01#					±0.25pF	GRM1883C1H3R8CA01#
			2.3pF	±0.05pF	GRM1883C1H2R3WA01#					±0.05pF	GRM1883C1H4R1WA01#
				±0.1pF	GRM1883C1H2R3BA01#					±0.1pF	GRM1883C1H4R1BA01#
				±0.25pF	GRM1883C1H2R3CA01#					±0.25pF	GRM1883C1H4R1CA01#
			2.4pF	±0.05pF	GRM1883C1H2R4WA01#					±0.05pF	GRM1883C1H4R2WA01#
				±0.1pF	GRM1883C1H2R4BA01#					±0.1pF	GRM1883C1H4R2BA01#
				±0.25pF	GRM1883C1H2R4CA01#					±0.25pF	GRM1883C1H4R2CA01#
			2.5pF	±0.05pF	GRM1883C1H2R5WA01#					±0.05pF	GRM1883C1H4R3WA01#
				±0.1pF	GRM1883C1H2R5BA01#					±0.1pF	GRM1883C1H4R3BA01#
			CH	4.0pF	±0.05pF	GRM1882C1H4R0WA01#				±0.05pF	GRM1882C1H4R0BA01#
					±0.1pF	GRM1882C1H4R0BA01#				±0.1pF	GRM1882C1H4R0CA01#
					±0.25pF	GRM1882C1H4R0CA01#				±0.25pF	GRM1882C1H4R1WA01#
				4.1pF	±0.05pF	GRM1882C1H4R1WA01#				±0.1pF	GRM1882C1H4R1BA01#
					±0.1pF	GRM1882C1H4R1BA01#				±0.25pF	GRM1882C1H4R1CA01#
			4.2pF	±0.05pF	GRM1882C1H4R2WA01#				±0.1pF	GRM1882C1H4R2BA01#	
					±0.1pF	GRM1882C1H4R2BA01#				±0.25pF	GRM1882C1H4R2CA01#
					±0.25pF	GRM1882C1H4R2CA01#				±0.05pF	GRM1882C1H4R3WA01#
			4.3pF	±0.05pF	GRM1882C1H4R3WA01#				±0.1pF	GRM1882C1H4R3BA01#	
					±0.1pF	GRM1882C1H4R3BA01#				±0.25pF	GRM1882C1H4R3CA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	CH	4.3pF	±0.25pF	GRM1882C1H4R3CA01#	0.9mm	50Vdc	CH	5.9pF	±0.05pF	GRM1882C1H5R9WA01#
			4.4pF	±0.05pF	GRM1882C1H4R4WA01#				±0.1pF	GRM1882C1H5R9BA01#	
				±0.1pF	GRM1882C1H4R4BA01#				±0.25pF	GRM1882C1H5R9CA01#	
				±0.25pF	GRM1882C1H4R4CA01#				±0.5pF	GRM1882C1H5R9DA01#	
			4.5pF	±0.05pF	GRM1882C1H4R5WA01#			6.0pF	±0.05pF	GRM1882C1H6R0WA01#	
				±0.1pF	GRM1882C1H4R5BA01#				±0.1pF	GRM1882C1H6R0BA01#	
				±0.25pF	GRM1882C1H4R5CA01#				±0.25pF	GRM1882C1H6R0CA01#	
			4.6pF	±0.05pF	GRM1882C1H4R6WA01#				±0.5pF	GRM1882C1H6R0DA01#	
				±0.1pF	GRM1882C1H4R6BA01#			6.1pF	±0.05pF	GRM1882C1H6R1WA01#	
				±0.25pF	GRM1882C1H4R6CA01#				±0.1pF	GRM1882C1H6R1BA01#	
			4.7pF	±0.05pF	GRM1882C1H4R7WA01#				±0.25pF	GRM1882C1H6R1CA01#	
				±0.1pF	GRM1882C1H4R7BA01#				±0.5pF	GRM1882C1H6R1DA01#	
				±0.25pF	GRM1882C1H4R7CA01#			6.2pF	±0.05pF	GRM1882C1H6R2WA01#	
			4.8pF	±0.05pF	GRM1882C1H4R8WA01#				±0.1pF	GRM1882C1H6R2BA01#	
				±0.1pF	GRM1882C1H4R8BA01#				±0.25pF	GRM1882C1H6R2CA01#	
				±0.25pF	GRM1882C1H4R8CA01#				±0.5pF	GRM1882C1H6R2DA01#	
			4.9pF	±0.05pF	GRM1882C1H4R9WA01#			6.3pF	±0.05pF	GRM1882C1H6R3WA01#	
				±0.1pF	GRM1882C1H4R9BA01#				±0.1pF	GRM1882C1H6R3BA01#	
				±0.25pF	GRM1882C1H4R9CA01#				±0.25pF	GRM1882C1H6R3CA01#	
			5.0pF	±0.05pF	GRM1882C1H5R0WA01#				±0.5pF	GRM1882C1H6R3DA01#	
				±0.1pF	GRM1882C1H5R0BA01#			6.4pF	±0.05pF	GRM1882C1H6R4WA01#	
				±0.25pF	GRM1882C1H5R0CA01#				±0.1pF	GRM1882C1H6R4BA01#	
			5.1pF	±0.05pF	GRM1882C1H5R1WA01#				±0.25pF	GRM1882C1H6R4CA01#	
				±0.1pF	GRM1882C1H5R1BA01#				±0.5pF	GRM1882C1H6R4DA01#	
				±0.25pF	GRM1882C1H5R1CA01#			6.5pF	±0.05pF	GRM1882C1H6R5WA01#	
				±0.5pF	GRM1882C1H5R1DA01#				±0.1pF	GRM1882C1H6R5BA01#	
			5.2pF	±0.05pF	GRM1882C1H5R2WA01#				±0.25pF	GRM1882C1H6R5CA01#	
				±0.1pF	GRM1882C1H5R2BA01#				±0.5pF	GRM1882C1H6R5DA01#	
				±0.25pF	GRM1882C1H5R2CA01#			6.6pF	±0.05pF	GRM1882C1H6R6WA01#	
				±0.5pF	GRM1882C1H5R2DA01#				±0.1pF	GRM1882C1H6R6BA01#	
			5.3pF	±0.05pF	GRM1882C1H5R3WA01#				±0.25pF	GRM1882C1H6R6CA01#	
				±0.1pF	GRM1882C1H5R3BA01#				±0.5pF	GRM1882C1H6R6DA01#	
				±0.25pF	GRM1882C1H5R3CA01#			6.7pF	±0.05pF	GRM1882C1H6R7WA01#	
				±0.5pF	GRM1882C1H5R3DA01#				±0.1pF	GRM1882C1H6R7BA01#	
			5.4pF	±0.05pF	GRM1882C1H5R4WA01#				±0.25pF	GRM1882C1H6R7CA01#	
				±0.1pF	GRM1882C1H5R4BA01#				±0.5pF	GRM1882C1H6R7DA01#	
				±0.25pF	GRM1882C1H5R4CA01#			6.8pF	±0.05pF	GRM1882C1H6R8WA01#	
				±0.5pF	GRM1882C1H5R4DA01#				±0.1pF	GRM1882C1H6R8BA01#	
			5.5pF	±0.05pF	GRM1882C1H5R5WA01#				±0.25pF	GRM1882C1H6R8CA01#	
				±0.1pF	GRM1882C1H5R5BA01#				±0.5pF	GRM1882C1H6R8DA01#	
				±0.25pF	GRM1882C1H5R5CA01#			6.9pF	±0.05pF	GRM1882C1H6R9WA01#	
				±0.5pF	GRM1882C1H5R5DA01#				±0.1pF	GRM1882C1H6R9BA01#	
			5.6pF	±0.05pF	GRM1882C1H5R6WA01#				±0.25pF	GRM1882C1H6R9CA01#	
				±0.1pF	GRM1882C1H5R6BA01#				±0.5pF	GRM1882C1H6R9DA01#	
				±0.25pF	GRM1882C1H5R6CA01#			7.0pF	±0.05pF	GRM1882C1H7R0WA01#	
				±0.5pF	GRM1882C1H5R6DA01#				±0.1pF	GRM1882C1H7R0BA01#	
			5.7pF	±0.05pF	GRM1882C1H5R7WA01#				±0.25pF	GRM1882C1H7R0CA01#	
				±0.1pF	GRM1882C1H5R7BA01#				±0.5pF	GRM1882C1H7R0DA01#	
				±0.25pF	GRM1882C1H5R7CA01#			7.1pF	±0.05pF	GRM1882C1H7R1WA01#	
				±0.5pF	GRM1882C1H5R7DA01#				±0.1pF	GRM1882C1H7R1BA01#	
			5.8pF	±0.05pF	GRM1882C1H5R8WA01#				±0.25pF	GRM1882C1H7R1CA01#	
				±0.1pF	GRM1882C1H5R8BA01#				±0.5pF	GRM1882C1H7R1DA01#	
				±0.25pF	GRM1882C1H5R8CA01#			7.2pF	±0.05pF	GRM1882C1H7R2WA01#	
				±0.5pF	GRM1882C1H5R8DA01#				±0.1pF	GRM1882C1H7R2BA01#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	CH	7.2pF	±0.25pF	GRM1882C1H7R2CA01#	0.9mm	50Vdc	CH	8.6pF	±0.05pF	GRM1882C1H8R6WA01#
				±0.5pF	GRM1882C1H7R2DA01#					±0.1pF	GRM1882C1H8R6BA01#
			7.3pF	±0.05pF	GRM1882C1H7R3WA01#					±0.25pF	GRM1882C1H8R6CA01#
				±0.1pF	GRM1882C1H7R3BA01#					±0.5pF	GRM1882C1H8R6DA01#
				±0.25pF	GRM1882C1H7R3CA01#					±0.05pF	GRM1882C1H8R7WA01#
				±0.5pF	GRM1882C1H7R3DA01#					±0.1pF	GRM1882C1H8R7BA01#
			7.4pF	±0.05pF	GRM1882C1H7R4WA01#					±0.25pF	GRM1882C1H8R7CA01#
				±0.1pF	GRM1882C1H7R4BA01#					±0.5pF	GRM1882C1H8R7DAO1#
				±0.25pF	GRM1882C1H7R4CA01#					±0.05pF	GRM1882C1H8R8WA01#
				±0.5pF	GRM1882C1H7R4DA01#					±0.1pF	GRM1882C1H8R8BA01#
			7.5pF	±0.05pF	GRM1882C1H7R5WA01#					±0.25pF	GRM1882C1H8R8CA01#
				±0.1pF	GRM1882C1H7R5BA01#					±0.5pF	GRM1882C1H8R8DA01#
				±0.25pF	GRM1882C1H7R5CA01#					±0.05pF	GRM1882C1H8R9WA01#
				±0.5pF	GRM1882C1H7R5DA01#					±0.1pF	GRM1882C1H8R9BA01#
			7.6pF	±0.05pF	GRM1882C1H7R6WA01#					±0.25pF	GRM1882C1H8R9CA01#
				±0.1pF	GRM1882C1H7R6BA01#					±0.5pF	GRM1882C1H8R9DA01#
				±0.25pF	GRM1882C1H7R6CA01#					±0.05pF	GRM1882C1H9R0WA01#
				±0.5pF	GRM1882C1H7R6DA01#					±0.1pF	GRM1882C1H9R0BA01#
			7.7pF	±0.05pF	GRM1882C1H7R7WA01#					±0.25pF	GRM1882C1H9R0CA01#
				±0.1pF	GRM1882C1H7R7BA01#					±0.5pF	GRM1882C1H9R0DA01#
				±0.25pF	GRM1882C1H7R7CA01#					±0.05pF	GRM1882C1H9R1WA01#
				±0.5pF	GRM1882C1H7R7DA01#					±0.1pF	GRM1882C1H9R1BA01#
			7.8pF	±0.05pF	GRM1882C1H7R8WA01#					±0.25pF	GRM1882C1H9R1CA01#
				±0.1pF	GRM1882C1H7R8BA01#					±0.5pF	GRM1882C1H9R1DAO1#
				±0.25pF	GRM1882C1H7R8CA01#					±0.05pF	GRM1882C1H9R2WA01#
				±0.5pF	GRM1882C1H7R8DA01#					±0.1pF	GRM1882C1H9R2BA01#
			7.9pF	±0.05pF	GRM1882C1H7R9WA01#					±0.25pF	GRM1882C1H9R2CA01#
				±0.1pF	GRM1882C1H7R9BA01#					±0.5pF	GRM1882C1H9R2DAO1#
				±0.25pF	GRM1882C1H7R9CA01#					±0.05pF	GRM1882C1H9R3WA01#
				±0.5pF	GRM1882C1H7R9DA01#					±0.1pF	GRM1882C1H9R3BA01#
			8.0pF	±0.05pF	GRM1882C1H8R0WA01#					±0.25pF	GRM1882C1H9R3CA01#
				±0.1pF	GRM1882C1H8R0BA01#					±0.5pF	GRM1882C1H9R3DAO1#
				±0.25pF	GRM1882C1H8R0CA01#					±0.05pF	GRM1882C1H9R4WA01#
				±0.5pF	GRM1882C1H8R0DA01#					±0.1pF	GRM1882C1H9R4BA01#
			8.1pF	±0.05pF	GRM1882C1H8R1WA01#					±0.25pF	GRM1882C1H9R4CA01#
				±0.1pF	GRM1882C1H8R1BA01#					±0.5pF	GRM1882C1H9R4DAO1#
				±0.25pF	GRM1882C1H8R1CA01#					±0.05pF	GRM1882C1H9R5WA01#
				±0.5pF	GRM1882C1H8R1DAO1#					±0.1pF	GRM1882C1H9R5BA01#
			8.2pF	±0.05pF	GRM1882C1H8R2WA01#					±0.25pF	GRM1882C1H9R5CA01#
				±0.1pF	GRM1882C1H8R2BA01#					±0.5pF	GRM1882C1H9R5DAO1#
				±0.25pF	GRM1882C1H8R2CA01#					±0.05pF	GRM1882C1H9R6WA01#
				±0.5pF	GRM1882C1H8R2DA01#					±0.1pF	GRM1882C1H9R6BA01#
			8.3pF	±0.05pF	GRM1882C1H8R3WA01#					±0.25pF	GRM1882C1H9R6CA01#
				±0.1pF	GRM1882C1H8R3BA01#					±0.5pF	GRM1882C1H9R6DAO1#
				±0.25pF	GRM1882C1H8R3CA01#					±0.05pF	GRM1882C1H9R7WA01#
				±0.5pF	GRM1882C1H8R3DA01#					±0.1pF	GRM1882C1H9R7BA01#
			8.4pF	±0.05pF	GRM1882C1H8R4WA01#					±0.25pF	GRM1882C1H9R7CA01#
				±0.1pF	GRM1882C1H8R4BA01#					±0.5pF	GRM1882C1H9R7DAO1#
				±0.25pF	GRM1882C1H8R4CA01#					±0.05pF	GRM1882C1H9R8WA01#
				±0.5pF	GRM1882C1H8R4DA01#					±0.1pF	GRM1882C1H9R8BA01#
			8.5pF	±0.05pF	GRM1882C1H8R5WA01#					±0.25pF	GRM1882C1H9R8CA01#
				±0.1pF	GRM1882C1H8R5BA01#					±0.5pF	GRM1882C1H9R8DAO1#
				±0.25pF	GRM1882C1H8R5CA01#					±0.05pF	GRM1882C1H9R9WA01#
				±0.5pF	GRM1882C1H8R5DA01#					±0.1pF	GRM1882C1H9R9BA01#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	50Vdc	CH	9.9pF	±0.25pF	GRM1882C1H9R9CA01#		0.9mm	50Vdc	U2J	2200pF	±5%	GRM1887U1H222JA01#	
				±0.5pF	GRM1882C1H9R9DA01#					2700pF	±5%	GRM1887U1H272JA01#	
			10pF	±5%	GRM1882C1H100JA01#					3300pF	±5%	GRM1887U1H332JA01#	
			12pF	±5%	GRM1882C1H120JA01#					3900pF	±5%	GRM1887U1H392JA01#	
			15pF	±5%	GRM1882C1H150JA01#					4700pF	±5%	GRM1887U1H472JA01#	
			18pF	±5%	GRM1882C1H180JA01#					5600pF	±5%	GRM1887U1H562JA01#	
			22pF	±5%	GRM1882C1H220JA01#					6800pF	±5%	GRM1887U1H682JA01#	
			27pF	±5%	GRM1882C1H270JA01#					8200pF	±5%	GRM1887U1H822JA01#	
			33pF	±5%	GRM1882C1H330JA01#					10000pF	±5%	GRM1887U1H103JA01#	
			39pF	±5%	GRM1882C1H390JA01#			UJ	UJ	1000pF	±5%	GRM1883U1H102JA01#	
			47pF	±5%	GRM1882C1H470JA01#					1200pF	±5%	GRM1883U1H122JA01#	
			56pF	±5%	GRM1882C1H560JA01#					1500pF	±5%	GRM1883U1H152JA01#	
			68pF	±5%	GRM1882C1H680JA01#					1800pF	±5%	GRM1883U1H182JA01#	
			82pF	±5%	GRM1882C1H820JA01#					2200pF	±5%	GRM1883U1H222JA01#	
			100pF	±5%	GRM1882C1H101JA01#					2700pF	±5%	GRM1883U1H272JA01#	
			120pF	±5%	GRM1882C1H121JA01#					3300pF	±5%	GRM1883U1H332JA01#	
			150pF	±5%	GRM1882C1H151JA01#					3900pF	±5%	GRM1883U1H392JA01#	
			180pF	±5%	GRM1882C1H181JA01#					4700pF	±5%	GRM1883U1H472JA01#	
			220pF	±5%	GRM1882C1H221JA01#					5600pF	±5%	GRM1883U1H562JA01#	
			270pF	±5%	GRM1882C1H271JA01#					6800pF	±5%	GRM1883U1H682JA01#	
			330pF	±5%	GRM1882C1H331JA01#					8200pF	±5%	GRM1883U1H822JA01#	
			390pF	±5%	GRM1882C1H391JA01#					10000pF	±5%	GRM1883U1H103JA01#	
			470pF	±5%	GRM1882C1H471JA01#		10Vdc	SL	SL	12000pF	±5%	GRM1881X1A123JA01#	
			560pF	±5%	GRM1882C1H561JA01#					15000pF	±5%	GRM1881X1A153JA01#	
			680pF	±5%	GRM1882C1H681JA01#					18000pF	±5%	GRM1881X1A183JA01#	
			820pF	±5%	GRM1882C1H821JA01#					22000pF	±5%	GRM1881X1A223JA01#	
			1000pF	±5%	GRM1882C1H102JA01#			U2J	U2J	12000pF	±5%	GRM1887U1A123JA01#	
			1200pF	±5%	GRM1882C1H122JA01#					15000pF	±5%	GRM1887U1A153JA01#	
			1500pF	±5%	GRM1882C1H152JA01#					18000pF	±5%	GRM1887U1A183JA01#	
			1800pF	±5%	GRM1882C1H182JA01#					22000pF	±5%	GRM1887U1A223JA01#	
			2200pF	±5%	GRM1882C1H222JA01#		UJ	UJ	UJ	12000pF	±5%	GRM1883U1A123JA01#	
			2700pF	±5%	GRM1882C1H272JA01#					15000pF	±5%	GRM1883U1A153JA01#	
			3300pF	±5%	GRM1882C1H332JA01#					18000pF	±5%	GRM1883U1A183JA01#	
			3900pF	±5%	GRM1882C1H392JA01#					22000pF	±5%	GRM1883U1A223JA01#	
			4700pF	±5%	GRM1882C1H472JA01#		0.7mm	100Vdc	COG	100pF	±5%	GRM2165C2A101JA01#	
			5600pF	±5%	GRM1882C1H562JA01#					120pF	±5%	GRM2165C2A121JA01#	
			6800pF	±5%	GRM1882C1H682JA01#					150pF	±5%	GRM2165C2A151JA01#	
			8200pF	±5%	GRM1882C1H822JA01#					180pF	±5%	GRM2165C2A181JA01#	
			10000pF	±5%	GRM1882C1H103JA01#					220pF	±5%	GRM2165C2A221JA01#	
			1200pF	±5%	GRM1881X1H122JA01#					270pF	±5%	GRM2165C2A271JA01#	
			1500pF	±5%	GRM1881X1H152JA01#					330pF	±5%	GRM2165C2A331JA01#	
			1800pF	±5%	GRM1881X1H182JA01#					390pF	±5%	GRM2165C2A391JA01#	
			2200pF	±5%	GRM1881X1H222JA01#					470pF	±5%	GRM2165C2A471JA01#	
			2700pF	±5%	GRM1881X1H272JA01#					560pF	±5%	GRM2165C2A561JA01#	
			3300pF	±5%	GRM1881X1H332JA01#					680pF	±5%	GRM2165C2A681JA01#	
			3900pF	±5%	GRM1881X1H392JA01#					820pF	±5%	GRM2165C2A821JA01#	
			4700pF	±5%	GRM1881X1H472JA01#					1000pF	±5%	GRM2165C2A102JA01#	
			5600pF	±5%	GRM1881X1H562JA01#					1200pF	±5%	GRM2165C2A122JA01#	
			6800pF	±5%	GRM1881X1H682JA01#					1500pF	±5%	GRM2165C2A152JA01#	
			8200pF	±5%	GRM1881X1H822JA01#								
			10000pF	±5%	GRM1881X1H103JA01#								
SL	100Vdc	COG	1200pF	±5%	GRM1881X1H122JA01#								
			1500pF	±5%	GRM1881X1H152JA01#								
			1800pF	±5%	GRM1881X1H182JA01#								
U2J			2200pF	±5%	GRM1881X1H222JA01#								
			2700pF	±5%	GRM1881X1H272JA01#								
			3300pF	±5%	GRM1881X1H332JA01#								
			3900pF	±5%	GRM1881X1H392JA01#								
			4700pF	±5%	GRM1881X1H472JA01#								
			5600pF	±5%	GRM1881X1H562JA01#								
			6800pF	±5%	GRM1881X1H682JA01#								
			8200pF	±5%	GRM1881X1H822JA01#								
			10000pF	±5%	GRM1881X1H103JA01#								
			1200pF	±5%	GRM1887U1H122JA01#								
LLL Series	KRM Series	NFM Series	1500pF	±5%	GRM1887U1H152JA01#								
			1800pF	±5%	GRM1887U1H182JA01#								
			2200pF	±5%	GRM1887U1H222JA01#								
LLR Series			2700pF	±5%	GRM1887U1H272JA01#								
			3300pF	±5%	GRM1887U1H332JA01#								
			3900pF	±5%	GRM1887U1H392JA01#								
LLM Series	GRJ Series	GR3 Series	4700pF	±5%	GRM1887U1H472JA01#								
			5600pF	±5%	GRM1887U1H562JA01#								
			6800pF	±5%	GRM1887U1H682JA01#								
LLS Series			8200pF	±5%	GRM1887U1H822JA01#								
			10000pF	±5%	GRM1887U1H103JA01#								
			1200pF	±5%	GRM1887U1H122JA01#								
GRJ Series	GR3												

## GRM Series Temperature Compensating Type Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	100Vdc	COG	1800pF	±5%	GRM2165C2A182JA01#	0.95mm	50Vdc	COG	15000pF	±5%	GRM2195C1H153JA01#	
			2200pF	±5%	GRM2165C2A222JA01#				5600pF	±5%	GRM2192C1H562JA01#	
			2700pF	±5%	GRM2165C2A272JA01#				6800pF	±5%	GRM2192C1H682JA01#	
			3300pF	±5%	GRM2165C2A332JA01#				8200pF	±5%	GRM2192C1H822JA01#	
		CH	100pF	±5%	GRM2162C2A101JA01#			CH	10000pF	±5%	GRM2192C1H103JA01#	
			120pF	±5%	GRM2162C2A121JA01#				12000pF	±5%	GRM2192C1H123JA01#	
			150pF	±5%	GRM2162C2A151JA01#				15000pF	±5%	GRM2192C1H153JA01#	
			180pF	±5%	GRM2162C2A181JA01#			SL	22000pF	±5%	GRM2191X1H223JA01#	
			220pF	±5%	GRM2162C2A221JA01#				27000pF	±5%	GRM2191X1H273JA01#	
			270pF	±5%	GRM2162C2A271JA01#			U2J	22000pF	±5%	GRM2197U1H223JA01#	
			330pF	±5%	GRM2162C2A331JA01#				27000pF	±5%	GRM2197U1H273JA01#	
			390pF	±5%	GRM2162C2A391JA01#			UJ	22000pF	±5%	GRM2193U1H223JA01#	
			470pF	±5%	GRM2162C2A471JA01#				27000pF	±5%	GRM2193U1H273JA01#	
		50Vdc	560pF	±5%	GRM2162C2A561JA01#			10Vdc	SL	56000pF	±5%	GRM2191X1A563JA01#
			680pF	±5%	GRM2162C2A681JA01#				U2J	56000pF	±5%	GRM2197U1A563JA01#
			820pF	±5%	GRM2162C2A821JA01#				UJ	56000pF	±5%	GRM2193U1A563JA01#
			1000pF	±5%	GRM2162C2A102JA01#			10.0mm	COG	10pF	±5%	GRM21A5C2E100JW01#
			1200pF	±5%	GRM2162C2A122JA01#				12pF	±5%	GRM21A5C2E120JW01#	
			1500pF	±5%	GRM2162C2A152JA01#				15pF	±5%	GRM21A5C2E150JW01#	
			1800pF	±5%	GRM2162C2A182JA01#				18pF	±5%	GRM21A5C2E180JW01#	
			2200pF	±5%	GRM2162C2A222JA01#				22pF	±5%	GRM21A5C2E220JW01#	
			2700pF	±5%	GRM2162C2A272JA01#				27pF	±5%	GRM21A5C2E270JW01#	
			3300pF	±5%	GRM2162C2A332JA01#				33pF	±5%	GRM21A5C2E330JW01#	
		COG	1200pF	±5%	GRM2165C1H122JA01#				39pF	±5%	GRM21A5C2E390JW01#	
			1500pF	±5%	GRM2165C1H152JA01#				47pF	±5%	GRM21A5C2E470JW01#	
			1800pF	±5%	GRM2165C1H182JA01#				56pF	±5%	GRM21A5C2E560JW01#	
			2200pF	±5%	GRM2165C1H222JA01#				68pF	±5%	GRM21A5C2E680JW01#	
			2700pF	±5%	GRM2165C1H272JA01#				82pF	±5%	GRM21A5C2E820JW01#	
			3300pF	±5%	GRM2165C1H332JA01#				100pF	±5%	GRM21A5C2E101JW01#	
			3900pF	±5%	GRM2165C1H392JA01#				120pF	±5%	GRM21A5C2E121JW01#	
			4700pF	±5%	GRM2165C1H472JA01#				150pF	±5%	GRM21A5C2E151JW01#	
		CH	1200pF	±5%	GRM2162C1H122JA01#				180pF	±5%	GRM21A5C2E181JW01#	
			1500pF	±5%	GRM2162C1H152JA01#				220pF	±5%	GRM21A5C2E221JW01#	
			1800pF	±5%	GRM2162C1H182JA01#				270pF	±5%	GRM21A5C2E271JW01#	
			2200pF	±5%	GRM2162C1H222JA01#				330pF	±5%	GRM21A5C2E331JW01#	
			2700pF	±5%	GRM2162C1H272JA01#				390pF	±5%	GRM21A5C2E391JW01#	
			3300pF	±5%	GRM2162C1H332JA01#				470pF	±5%	GRM21A5C2E471JW01#	
			3900pF	±5%	GRM2162C1H392JA01#				560pF	±5%	GRM21A5C2E561JW01#	
			4700pF	±5%	GRM2162C1H472JA01#				680pF	±5%	GRM21A5C2E681JW01#	
		SL	12000pF	±5%	GRM2161X1H123JA01#				820pF	±5%	GRM21A5C2E821JW01#	
			15000pF	±5%	GRM2161X1H153JA01#				1000pF	±5%	GRM21A5C2E102JW01#	
			18000pF	±5%	GRM2161X1H183JA01#				1200pF	±5%	GRM21A5C2E122JW01#	
			12000pF	±5%	GRM2167U1H123JA01#				1500pF	±5%	GRM21A5C2E152JW01#	
		U2J	15000pF	±5%	GRM2167U1H153JA01#				1800pF	±5%	GRM21A5C2E182JW01#	
			18000pF	±5%	GRM2167U1H183JA01#				2200pF	±5%	GRM21A5C2E222JW01#	
			10000pF	±5%	GRM2163U1H103JA01#				2700pF	±5%	GRM21A5C2E272JW01#	
			12000pF	±5%	GRM2163U1H123JA01#				100pF	±5%	GRM21A7U2E101JW31#	
		UJ	15000pF	±5%	GRM2163U1H153JA01#				120pF	±5%	GRM21A7U2E121JW31#	
			18000pF	±5%	GRM2163U1H183JA01#				150pF	±5%	GRM21A7U2E151JW31#	
			12000pF	±5%	GRM2163U1H103JA01#				180pF	±5%	GRM21A7U2E181JW31#	
			15000pF	±5%	GRM2163U1H123JA01#				220pF	±5%	GRM21A7U2E221JW31#	
		U2J	18000pF	±5%	GRM2163U1H153JA01#				270pF	±5%	GRM21A7U2E271JW31#	
			12000pF	±5%	GRM2163U1H183JA01#				330pF	±5%	GRM21A7U2E331JW31#	
			15000pF	±5%	GRM2163U1H103JA01#				390pF	±5%	GRM21A7U2E391JW31#	
			18000pF	±5%	GRM2163U1H123JA01#				100pF	±5%	GRM21A7U2E101JW31#	
0.95mm	50Vdc	COG	5600pF	±5%	GRM2195C1H562JA01#							
			6800pF	±5%	GRM2195C1H682JA01#							
			8200pF	±5%	GRM2195C1H822JA01#							
			10000pF	±5%	GRM2195C1H103JA01#							
			12000pF	±5%	GRM2195C1H123JA01#							

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
1.0mm	250Vdc	U2J	470pF	±5%	GRM21A7U2E471JW31#		1.35mm	50Vdc	U2J	39000pF	±5%	GRM21B7U1H393JA01#		
			560pF	±5%	GRM21A7U2E561JW31#					47000pF	±5%	GRM21B7U1H473JA01#		
			680pF	±5%	GRM21A7U2E681JW31#			UJ		39000pF	±5%	GRM21B3U1H393JA01#		
			820pF	±5%	GRM21A7U2E821JW31#					47000pF	±5%	GRM21B3U1H473JA01#		
			1000pF	±5%	GRM21A7U2E102JW31#			10Vdc	SL	68000pF	±5%	GRM21B1X1A683JA01#		
			1200pF	±5%	GRM21A7U2E122JW31#					82000pF	±5%	GRM21B1X1A823JA01#		
			1500pF	±5%	GRM21A7U2E152JW31#					0.10µF	±5%	GRM21B1X1A104JA01#		
			1800pF	±5%	GRM21A7U2E182JW31#				U2J	68000pF	±5%	GRM21B7U1A683JA01#		
			2200pF	±5%	GRM21A7U2E222JW31#					82000pF	±5%	GRM21B7U1A823JA01#		
	200Vdc	C0G	10pF	±5%	GRM21A5C2D100JW01#					0.10µF	±5%	GRM21B7U1A104JA01#		
			12pF	±5%	GRM21A5C2D120JW01#			UJ		68000pF	±5%	GRM21B3U1A683JA01#		
			15pF	±5%	GRM21A5C2D150JW01#					82000pF	±5%	GRM21B3U1A823JA01#		
			18pF	±5%	GRM21A5C2D180JW01#					0.10µF	±5%	GRM21B3U1A104JA01#		
			22pF	±5%	GRM21A5C2D220JW01#			1.45mm	COG	3300pF	±5%	GRM21B5C2E332JWA1#		
			27pF	±5%	GRM21A5C2D270JW01#					3900pF	±5%	GRM21B5C2E392JWA1#		
			33pF	±5%	GRM21A5C2D330JW01#					4700pF	±5%	GRM21B5C2E472JWA1#		
			39pF	±5%	GRM21A5C2D390JW01#				U2J	2700pF	±5%	GRM21B7U2E272JW32#		
			47pF	±5%	GRM21A5C2D470JW01#					3300pF	±5%	GRM21B7U2E332JW32#		
			56pF	±5%	GRM21A5C2D560JW01#					3900pF	±5%	GRM21B7U2E392JW32#		
			68pF	±5%	GRM21A5C2D680JW01#				200Vdc	4700pF	±5%	GRM21B7U2E472JW32#		
			82pF	±5%	GRM21A5C2D820JW01#					5600pF	±5%	GRM21B7U2E562JW32#		
			100pF	±5%	GRM21A5C2D101JW01#					2700pF	±5%	GRM21B7U2D272JW32#		
			120pF	±5%	GRM21A5C2D121JW01#					3300pF	±5%	GRM21B7U2D332JW32#		
			150pF	±5%	GRM21A5C2D151JW01#					3900pF	±5%	GRM21B7U2D392JW32#		
			180pF	±5%	GRM21A5C2D181JW01#					4700pF	±5%	GRM21B7U2D472JW32#		
			220pF	±5%	GRM21A5C2D221JW01#					5600pF	±5%	GRM21B7U2D562JW32#		
			270pF	±5%	GRM21A5C2D271JW01#									
			330pF	±5%	GRM21A5C2D331JW01#									
U2J	U2J	100pF	±5%	GRM21A7U2D101JW31#										
		120pF	±5%	GRM21A7U2D121JW31#										
		150pF	±5%	GRM21A7U2D151JW31#										
		180pF	±5%	GRM21A7U2D181JW31#										
		220pF	±5%	GRM21A7U2D221JW31#										
		270pF	±5%	GRM21A7U2D271JW31#										
		330pF	±5%	GRM21A7U2D331JW31#										
		390pF	±5%	GRM21A7U2D391JW31#										
		470pF	±5%	GRM21A7U2D471JW31#										
		560pF	±5%	GRM21A7U2D561JW31#										
		680pF	±5%	GRM21A7U2D681JW31#										
		820pF	±5%	GRM21A7U2D821JW31#										
		1000pF	±5%	GRM21A7U2D102JW31#										
		1200pF	±5%	GRM21A7U2D122JW31#										
		1500pF	±5%	GRM21A7U2D152JW31#										
		1800pF	±5%	GRM21A7U2D182JW31#										
		2200pF	±5%	GRM21A7U2D222JW31#										
50Vdc	SL	33000pF	±5%	GRM21A1X1H333JA39#										
		U2J	33000pF	±5%	GRM21A7U1H333JA39#									
		UJ	33000pF	±5%	GRM21A3U1H333JA39#									
1.35mm	COG	18000pF	±5%	GRM21B5C1H183JA01#		CH			1800pF	±5%	GRM3195C2A182JA01#			
		22000pF	±5%	GRM21B5C1H223JA01#					2200pF	±5%	GRM3192C2A222JA01#	D1		
		18000pF	±5%	GRM21B2C1H183JA01#					2700pF	±5%	GRM3192C2A272JA01#	D1		
		22000pF	±5%	GRM21B2C1H223JA01#					3300pF	±5%	GRM3192C2A332JA01#	D1		
	SL	39000pF	±5%	GRM21B1X1H393JA01#					3900pF	±5%	GRM3192C2A392JA01#	D1		
		47000pF	±5%	GRM21B1X1H473JA01#					4700pF	±5%	GRM3192C2A472JA01#			

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	CH	5600pF	±5%	GRM3192C2A562JA01#	1.0mm	1000Vdc	COG	180pF	±5%	GRM31A5C3A181JW01#
			6800pF	±5%	GRM3192C2A682JA01#				220pF	±5%	GRM31A5C3A221JW01#
			8200pF	±5%	GRM3192C2A822JA01#				270pF	±5%	GRM31A5C3A271JWA1#
			10000pF	±5%	GRM3192C2A103JA01#				330pF	±5%	GRM31A5C3A331JWA1#
			12000pF	±5%	GRM3192C2A123JA01#				390pF	±5%	GRM31A5C3A391JWA1#
			15000pF	±5%	GRM3192C2A153JA01#				470pF	±5%	GRM31A5C3A471JWA1#
			18000pF	±5%	GRM3192C2A183JA01#		U2J	U2J	10pF	±5%	GRM31A7U3A100JW31#
			22000pF	±5%	GRM3192C2A223JA01#				12pF	±5%	GRM31A7U3A120JW31#
			27000pF	±5%	GRM3192C2A273JA01#				15pF	±5%	GRM31A7U3A150JW31#
			33000pF	±5%	GRM3192C2A333JA01#				18pF	±5%	GRM31A7U3A180JW31#
			39000pF	±5%	GRM3192C2A393JA01#				22pF	±5%	GRM31A7U3A220JW31#
	50Vdc	COG	12000pF	±5%	GRM3195C1H123JA01#				27pF	±5%	GRM31A7U3A270JW31#
			15000pF	±5%	GRM3195C1H153JA01#				33pF	±5%	GRM31A7U3A330JW31#
			18000pF	±5%	GRM3195C1H183JA01#				39pF	±5%	GRM31A7U3A390JW31#
			22000pF	±5%	GRM3195C1H223JA01#				47pF	±5%	GRM31A7U3A470JW31#
			27000pF	±5%	GRM3195C1H273JA01#				56pF	±5%	GRM31A7U3A560JW31#
			33000pF	±5%	GRM3195C1H333JA01#				68pF	±5%	GRM31A7U3A680JW31#
			39000pF	±5%	GRM3195C1H393JA01#				82pF	±5%	GRM31A7U3A820JW31#
		CH	12000pF	±5%	GRM3192C1H123JA01#				100pF	±5%	GRM31A7U3A101JW31#
			15000pF	±5%	GRM3192C1H153JA01#				120pF	±5%	GRM31A7U3A121JW31#
			18000pF	±5%	GRM3192C1H183JA01#				150pF	±5%	GRM31A7U3A151JW31#
			22000pF	±5%	GRM3192C1H223JA01#				180pF	±5%	GRM31A7U3A181JW31#
			27000pF	±5%	GRM3192C1H273JA01#				220pF	±5%	GRM31A7U3A221JW31#
			33000pF	±5%	GRM3192C1H333JA01#				270pF	±5%	GRM31A7U3A271JW31#
			39000pF	±5%	GRM3192C1H393JA01#				330pF	±5%	GRM31A7U3A331JW31#
	1.0mm	SL	56000pF	±5%	GRM3191X1H563JA01#	630Vdc	COG	COG	10pF	±5%	GRM31A5C2J100JW01#
			56000pF	±5%	GRM3197U1H563JA01#				12pF	±5%	GRM31A5C2J120JW01#
			56000pF	±5%	GRM3193U1H563JA01#				15pF	±5%	GRM31A5C2J150JW01#
	2000Vdc	U2J	10pF	±5%	GRM31A7U3D100JW31#				18pF	±5%	GRM31A5C2J180JW01#
			12pF	±5%	GRM31A7U3D120JW31#				22pF	±5%	GRM31A5C2J220JW01#
			15pF	±5%	GRM31A7U3D150JW31#				27pF	±5%	GRM31A5C2J270JW01#
			18pF	±5%	GRM31A7U3D180JW31#				33pF	±5%	GRM31A5C2J330JW01#
			22pF	±5%	GRM31A7U3D220JW31#				39pF	±5%	GRM31A5C2J390JW01#
			27pF	±5%	GRM31A7U3D270JW31#				47pF	±5%	GRM31A5C2J470JW01#
			33pF	±5%	GRM31A7U3D330JW31#				56pF	±5%	GRM31A5C2J560JW01#
			39pF	±5%	GRM31A7U3D390JW31#				68pF	±5%	GRM31A5C2J680JW01#
			47pF	±5%	GRM31A7U3D470JW31#				82pF	±5%	GRM31A5C2J820JW01#
			56pF	±5%	GRM31A7U3D560JW31#				100pF	±5%	GRM31A5C2J101JW01#
	10000Vdc	COG	68pF	±5%	GRM31A7U3D680JW31#				120pF	±5%	GRM31A5C2J121JW01#
			10pF	±5%	GRM31A5C3A100JW01#				150pF	±5%	GRM31A5C2J151JW01#
			12pF	±5%	GRM31A5C3A120JW01#				180pF	±5%	GRM31A5C2J181JW01#
			15pF	±5%	GRM31A5C3A150JW01#				220pF	±5%	GRM31A5C2J221JW01#
			18pF	±5%	GRM31A5C3A180JW01#				270pF	±5%	GRM31A5C2J271JW01#
			22pF	±5%	GRM31A5C3A220JW01#				330pF	±5%	GRM31A5C2J331JW01#
			27pF	±5%	GRM31A5C3A270JW01#				390pF	±5%	GRM31A5C2J391JW01#
			33pF	±5%	GRM31A5C3A330JW01#				470pF	±5%	GRM31A5C2J471JW01#
			39pF	±5%	GRM31A5C3A390JW01#				560pF	±5%	GRM31A5C2J561JW01#
			47pF	±5%	GRM31A5C3A470JW01#				1200pF	±5%	GRM31A5C2J122JWA1#
			56pF	±5%	GRM31A5C3A560JW01#				1500pF	±5%	GRM31A5C2J152JWA1#
			68pF	±5%	GRM31A5C3A680JW01#				1800pF	±5%	GRM31A5C2J182JWA1#
			82pF	±5%	GRM31A5C3A820JW01#		U2J	U2J	10pF	±5%	GRM31A7U2J100JW31#
			100pF	±5%	GRM31A5C3A101JW01#				12pF	±5%	GRM31A7U2J120JW31#
			120pF	±5%	GRM31A5C3A121JW01#				15pF	±5%	GRM31A7U2J150JW31#
			150pF	±5%	GRM31A5C3A151JW01#				18pF	±5%	GRM31A7U2J180JW31#

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	630Vdc	U2J	22pF	±5%	GRM31A7U2J220JW31#		1.0mm	500Vdc	U2J	39pF	±5%	GRM31A7U2H390JW31#	
			27pF	±5%	GRM31A7U2J270JW31#					47pF	±5%	GRM31A7U2H470JW31#	
			33pF	±5%	GRM31A7U2J330JW31#					56pF	±5%	GRM31A7U2H560JW31#	
			39pF	±5%	GRM31A7U2J390JW31#					68pF	±5%	GRM31A7U2H680JW31#	
			47pF	±5%	GRM31A7U2J470JW31#					82pF	±5%	GRM31A7U2H820JW31#	
			56pF	±5%	GRM31A7U2J560JW31#					100pF	±5%	GRM31A7U2H101JW31#	
			68pF	±5%	GRM31A7U2J680JW31#					120pF	±5%	GRM31A7U2H121JW31#	
			82pF	±5%	GRM31A7U2J820JW31#					150pF	±5%	GRM31A7U2H151JW31#	
			100pF	±5%	GRM31A7U2J101JW31#					180pF	±5%	GRM31A7U2H181JW31#	
			120pF	±5%	GRM31A7U2J121JW31#					220pF	±5%	GRM31A7U2H221JW31#	
			150pF	±5%	GRM31A7U2J151JW31#					270pF	±5%	GRM31A7U2H271JW31#	
			180pF	±5%	GRM31A7U2J181JW31#					330pF	±5%	GRM31A7U2H331JW31#	
			220pF	±5%	GRM31A7U2J221JW31#					390pF	±5%	GRM31A7U2H391JW31#	
			270pF	±5%	GRM31A7U2J271JW31#					470pF	±5%	GRM31A7U2H471JW31#	
			330pF	±5%	GRM31A7U2J331JW31#					560pF	±5%	GRM31A7U2H561JW31#	
			390pF	±5%	GRM31A7U2J391JW31#					680pF	±5%	GRM31A7U2H681JW31#	
			470pF	±5%	GRM31A7U2J471JW31#					820pF	±5%	GRM31A7U2H821JW31#	
			560pF	±5%	GRM31A7U2J561JW31#					1000pF	±5%	GRM31A7U2H102JW31#	
			680pF	±5%	GRM31A7U2J681JW31#					1200pF	±5%	GRM31A7U2H122JW31#	
			820pF	±5%	GRM31A7U2J821JW31#					1500pF	±5%	GRM31A7U2H152JW31#	
			1000pF	±5%	GRM31A7U2J102JW31#					1800pF	±5%	GRM31A7U2H182JW31#	
			1200pF	±5%	GRM31A7U2J122JW31#					2200pF	±5%	GRM31A7U2H222JW31#	
	500Vdc	COG	150pF	±5%	GRM31A5C2H152JW31#		250Vdc	COG	COG	390pF	±5%	GRM31A5C2E391JWA1#	
			180pF	±5%	GRM31A7U2J182JW31#					470pF	±5%	GRM31A5C2E471JWA1#	
			220pF	±5%	GRM31A7U2J222JW31#					560pF	±5%	GRM31A5C2E561JWA1#	
			10pF	±5%	GRM31A5C2H100JW01#					680pF	±5%	GRM31A5C2E681JWA1#	
			12pF	±5%	GRM31A5C2H120JW01#					820pF	±5%	GRM31A5C2E821JWA1#	
			15pF	±5%	GRM31A5C2H150JW01#					1000pF	±5%	GRM31A5C2E102JWA1#	
			18pF	±5%	GRM31A5C2H180JW01#					1200pF	±5%	GRM31A5C2E122JWA1#	
			22pF	±5%	GRM31A5C2H220JW01#					1500pF	±5%	GRM31A5C2E152JWA1#	
			27pF	±5%	GRM31A5C2H270JW01#					1800pF	±5%	GRM31A5C2E182JWA1#	
			33pF	±5%	GRM31A5C2H330JW01#					2200pF	±5%	GRM31A5C2E222JWA1#	
			39pF	±5%	GRM31A5C2H390JW01#					2700pF	±5%	GRM31A5C2E272JWA1#	
			47pF	±5%	GRM31A5C2H470JW01#					3300pF	±5%	GRM31A5C2E332JWA1#	
			56pF	±5%	GRM31A5C2H560JW01#					3900pF	±5%	GRM31A5C2E392JWA1#	
			68pF	±5%	GRM31A5C2H680JW01#					4700pF	±5%	GRM31A5C2E472JWA1#	
			82pF	±5%	GRM31A5C2H820JW01#					5600pF	±5%	GRM31A5C2E562JWA1#	
			100pF	±5%	GRM31A5C2H101JW01#					6800pF	±5%	GRM31A5C2E682JWA1#	
			120pF	±5%	GRM31A5C2H121JW01#		U2J	U2J	U2J	2700pF	±5%	GRM31A7U2E272JW31#	
			150pF	±5%	GRM31A5C2H151JW01#					3300pF	±5%	GRM31A7U2E332JW31#	
			180pF	±5%	GRM31A5C2H181JW01#					3900pF	±5%	GRM31A7U2E392JW31#	
			220pF	±5%	GRM31A5C2H221JW01#					4700pF	±5%	GRM31A7U2E472JW31#	
			270pF	±5%	GRM31A5C2H271JW01#					5600pF	±5%	GRM31A7U2E562JW31#	
	U2J	U2J	330pF	±5%	GRM31A5C2H331JW01#		200Vdc	U2J	U2J	2700pF	±5%	GRM31A7U2D272JW31#	
			390pF	±5%	GRM31A5C2H391JW01#					3300pF	±5%	GRM31A7U2D332JW31#	
			470pF	±5%	GRM31A5C2H471JW01#					3900pF	±5%	GRM31A7U2D392JW31#	
			560pF	±5%	GRM31A5C2H561JW01#					4700pF	±5%	GRM31A7U2D472JW31#	
			10pF	±5%	GRM31A7U2H100JW31#					5600pF	±5%	GRM31A7U2D562JW31#	
			12pF	±5%	GRM31A7U2H120JW31#		1.25mm 1000Vdc	COG	COG	560pF	±5%	GRM31B5C3A561JWA1#	
			15pF	±5%	GRM31A7U2H150JW31#					680pF	±5%	GRM31B5C3A681JWA1#	
			18pF	±5%	GRM31A7U2H180JW31#					390pF	±5%	GRM31B7U3A391JW31#	
			22pF	±5%	GRM31A7U2H220JW31#					470pF	±5%	GRM31B7U3A471JW31#	
			27pF	±5%	GRM31A7U2H270JW31#					560pF	±5%	GRM31B7U3A561JW31#	
			33pF	±5%	GRM31A7U2H330JW31#					680pF	±5%	GRM31B7U3A681JW31#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

(→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.25mm	630Vdc	COG	680pF	±5%	GRM31B5C2J681JW01#	
			820pF	±5%	GRM31B5C2J821JW01#	
			1000pF	±5%	GRM31B5C2J102JW01#	
			2200pF	±5%	GRM31B5C2J222JWA1#	
			2700pF	±5%	GRM31B5C2J272JWA1#	
	U2J	U2J	2700pF	±5%	GRM31B7U2J272JW31#	
			3300pF	±5%	GRM31B7U2J332JW31#	
	500Vdc	COG	680pF	±5%	GRM31B5C2H681JW01#	
			820pF	±5%	GRM31B5C2H821JW01#	
			1000pF	±5%	GRM31B5C2H102JW01#	
		U2J	2700pF	±5%	GRM31B7U2H272JW31#	
			3300pF	±5%	GRM31B7U2H332JW31#	
	250Vdc	COG	8200pF	±5%	GRM31B5C2E822JWA1#	
			10000pF	±5%	GRM31B5C2E103JWA1#	
			12000pF	±5%	GRM31B5C2E123JWA1#	
		U2J	6800pF	±5%	GRM31B7U2E682JW31#	
			8200pF	±5%	GRM31B7U2E822JW31#	
			10000pF	±5%	GRM31B7U2E103JW31#	
			12000pF	±5%	GRM31B7U2E123JW31#	
		U2J	6800pF	±5%	GRM31B7U2D682JW31#	
			8200pF	±5%	GRM31B7U2D822JW31#	
			10000pF	±5%	GRM31B7U2D103JW31#	
	100Vdc	COG	47000pF	±5%	GRM31M5C2A473JA01# D1	
			56000pF	±5%	GRM31M5C2A563JA01# D1	
		CH	47000pF	±5%	GRM31M2C2A473JA01# D1	
			56000pF	±5%	GRM31M2C2A563JA01# D1	
			47000pF	±5%	GRM31M5C1H473JA01#	
	50Vdc	COG	56000pF	±5%	GRM31M5C1H563JA01#	
			47000pF	±5%	GRM31M2C1H473JA01#	
		CH	56000pF	±5%	GRM31M2C1H563JA01#	
			68000pF	±5%	GRM31M1X1H683JA01#	
		SL	82000pF	±5%	GRM31M1X1H823JA01#	
			0.10μF	±5%	GRM31M1X1H104JA01#	
		U2J	68000pF	±5%	GRM31M7U1H683JA01#	
			82000pF	±5%	GRM31M7U1H823JA01#	
			0.10μF	±5%	GRM31M7U1H104JA01#	
		UJ	68000pF	±5%	GRM31M3U1H683JA01#	
			82000pF	±5%	GRM31M3U1H823JA01#	
			0.10μF	±5%	GRM31M3U1H104JA01#	
1.8mm	1000Vdc	COG	820pF	±5%	GRM31C5C3A821JWA3#	
			1000pF	±5%	GRM31C5C3A102JWA3#	
		U2J	820pF	±5%	GRM31C7U3A821JW32#	
			1000pF	±5%	GRM31C7U3A102JW32#	
			3300pF	±5%	GRM31C5C2J332JWA3#	
	630Vdc	COG	3900pF	±5%	GRM31C7U2J392JW32#	
			4700pF	±5%	GRM31C7U2J472JW32#	
		U2J	3900pF	±5%	GRM31C7U2H392JW32#	
	500Vdc	U2J	4700pF	±5%	GRM31C7U2H472JW32#	
			15000pF	±5%	GRM31C5C2E153JWA3#	
		U2J	15000pF	±5%	GRM31C7U2E153JW32#	
	250Vdc	COG	18000pF	±5%	GRM31C7U2E183JW32#	
			22000pF	±5%	GRM31C7U2E223JW32#	
			68000pF	±5%	GRM31C5C2A683JA01# D1	
		U2J	82000pF	±5%	GRM31C5C2A823JA01# D1	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.8mm	100Vdc	COG	0.10μF	±5%	GRM31C5C2A104JA01#	D1
			68000pF	±5%	GRM31C2C2A683JA01#	D1
		CH	82000pF	±5%	GRM31C2C2A823JA01#	D1
		CH	0.10μF	±5%	GRM31C2C2A104JA01#	D1
	50Vdc	COG	68000pF	±5%	GRM31C5C1H683JA01#	
			82000pF	±5%	GRM31C5C1H823JA01#	
		CH	0.10μF	±5%	GRM31C5C1H104JA01#	
		CH	68000pF	±5%	GRM31C2C1H683JA01#	
	25Vdc	COG	82000pF	±5%	GRM31C5C1E124JA01#	
			0.10μF	±5%	GRM31C2C1E124JA01#	
	16Vdc	COG	0.12μF	±5%	GRM31C5C1C124JA01#	
			0.12μF	±5%	GRM31C2C1C124JA01#	

### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.0mm	2000Vdc	U2J	82pF	±5%	GRM32A7U3D820JW31#	
			100pF	±5%	GRM32A7U3D101JW31#	
			120pF	±5%	GRM32A7U3D121JW31#	
			150pF	±5%	GRM32A7U3D151JW31#	
	630Vdc	U2J	1200pF	±5%	GRM32A7U2J122JW31#	
			1500pF	±5%	GRM32A7U2J152JW31#	
			1800pF	±5%	GRM32A7U2J182JW31#	
			2200pF	±5%	GRM32A7U2J222JW31#	
	500Vdc	U2J	1200pF	±5%	GRM32A7U2H122JW31#	
			1500pF	±5%	GRM32A7U2H152JW31#	
			1800pF	±5%	GRM32A7U2H182JW31#	
			2200pF	±5%	GRM32A7U2H222JW31#	
1.25mm	2000Vdc	U2J	180pF	±5%	GRM32B7U3D181JW31#	
			220pF	±5%	GRM32B7U3D221JW31#	
		U2J	1200pF	±5%	GRM32B7U3A122JW31#	
		U2J	5600pF	±5%	GRM32B7U2J562JW31#	
	630Vdc	U2J	5600pF	±5%	GRM32B7U2H562JW31#	
			5600pF	±5%	GRM32B7U2H562JW31#	
		U2J	5600pF	±5%	GRM32Q7U2H682JW31#	
		U2J	6800pF	±5%	GRM32Q7U2H682JW31#	
	500Vdc	U2J	1500pF	±5%	GRM32Q7U3A152JW31#	
			6800pF	±5%	GRM32Q7U2J682JW31#	
		U2J	27000pF	±5%	GRM32Q7U2E273JW31#	
		U2J	39000pF	±5%	GRM32D7U3A182JW31#	
2.0mm	1000Vdc	U2J	1800pF	±5%	GRM32D7U3A222JW31#	
			2200pF	±5%	GRM32D7U3A222JW31#	
		U2J	8200pF	±5%	GRM32D7U2J822JW31#	
		U2J	10000pF	±5%	GRM32D7U2J103JW31#	
	500Vdc	U2J	8200pF	±5%	GRM32D7U2H822JW31#	
			10000pF	±5%	GRM32D7U2H103JW31#	
		U2J	33000pF	±5%	GRM32D7U2E333JW31#	
		U2J	39000pF	±5%	GRM32D7U2E393JW31#	
	250Vdc	U2J	47000pF	±5%	GRM32D7U2E473JW31#	

Part number # indicates the package specification code.

## GRM Series Temperature Compensating Type Part Number List

### 4.5×2.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	3150Vdc	U2J	10pF	±5%	GRM42A7U3F100JW31#
			12pF	±5%	GRM42A7U3F120JW31#
			15pF	±5%	GRM42A7U3F150JW31#
			18pF	±5%	GRM42A7U3F180JW31#
			22pF	±5%	GRM42A7U3F220JW31#
			27pF	±5%	GRM42A7U3F270JW31#
			33pF	±5%	GRM42A7U3F330JW31#
			39pF	±5%	GRM42A7U3F390JW31#
			47pF	±5%	GRM42A7U3F470JW31#
			56pF	±5%	GRM42A7U3F560JW31#
			68pF	±5%	GRM42A7U3F680JW31#
			82pF	±5%	GRM42A7U3F820JW31#
			100pF	±5%	GRM42A7U3F101JW31#

### 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	1000Vdc	U2J	2700pF	±5%	GRM43Q7U3A272JW31#
			3300pF	±5%	GRM43Q7U3A332JW31#
	630Vdc	U2J	12000pF	±5%	GRM43Q7U2J123JW31#
	500Vdc	U2J	12000pF	±5%	GRM43Q7U2H123JW31#
2.0mm	1000Vdc	U2J	3900pF	±5%	GRM43D7U3A392JW31#
			4700pF	±5%	GRM43D7U3A472JW31#
	630Vdc	U2J	15000pF	±5%	GRM43D7U2J153JW31#
			18000pF	±5%	GRM43D7U2J183JW31#
			22000pF	±5%	GRM43D7U2J223JW31#
	500Vdc	U2J	15000pF	±5%	GRM43D7U2H153JW31#
			18000pF	±5%	GRM43D7U2H183JW31#
			22000pF	±5%	GRM43D7U2H223JW31#

### 5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	1000Vdc	U2J	5600pF	±5%	GRM55Q7U3A562JW31#
			6800pF	±5%	GRM55Q7U3A682JW31#
	630Vdc	U2J	27000pF	±5%	GRM55Q7U2J273JW31#
	500Vdc	U2J	27000pF	±5%	GRM55Q7U2H273JW31#
2.0mm	1000Vdc	U2J	8200pF	±5%	GRM55D7U3A822JW31#
			10000pF	±5%	GRM55D7U3A103JW31#
	630Vdc	U2J	33000pF	±5%	GRM55D7U2J333JW31#
			39000pF	±5%	GRM55D7U2J393JW31#
			47000pF	±5%	GRM55D7U2J473JW31#
	500Vdc	U2J	33000pF	±5%	GRM55D7U2H333JW31#
			39000pF	±5%	GRM55D7U2H393JW31#
			47000pF	±5%	GRM55D7U2H473JW31#

## GRM Series High Dielectric Constant Type Part Number List

0.4×0.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	16Vdc	X7R	100pF	±10%	GRM022R71C101KE14#	
				±20%	GRM022R71C101ME14#	
			150pF	±10%	GRM022R71C151KE14#	
				±20%	GRM022R71C151ME14#	
			220pF	±10%	GRM022R71C221KE14#	
				±20%	GRM022R71C221ME14#	
			330pF	±10%	GRM022R71C331KE14#	
				±20%	GRM022R71C331ME14#	
			470pF	±10%	GRM022R71C471KE14#	
				±20%	GRM022R71C471ME14#	
			1000pF	±10%	GRM022R71C102KE14#	
				±20%	GRM022R71C102ME14#	
			10Vdc	±10%	GRM022R71A101KA01#	
				±20%	GRM022R71A101MA01#	
				±10%	GRM022R71A151KA01#	
				±20%	GRM022R71A151MA01#	
				±10%	GRM022R71A221KA01#	
				±20%	GRM022R71A221MA01#	
				±10%	GRM022R71A331KA01#	
				±20%	GRM022R71A331MA01#	
				±10%	GRM022R71A471KA01#	
				±20%	GRM022R71A471MA01#	
				±10%	GRM022R71A681KA12#	
				±20%	GRM022R71A681MA12#	
				±10%	GRM022R71A821KA12#	
				±20%	GRM022R71A821MA12#	
				±10%	GRM022R71A102KA12#	
				±20%	GRM022R71A102MA12#	
			X5R	±10%	GRM022R61A101KA01#	
				±20%	GRM022R61A101MA01#	
				±10%	GRM022R61A151KA01#	
				±20%	GRM022R61A151MA01#	
				±10%	GRM022R61A221KA01#	
				±20%	GRM022R61A221MA01#	
				±10%	GRM022R61A331KA01#	
				±20%	GRM022R61A331MA01#	
				±10%	GRM022R61A471KA01#	
				±20%	GRM022R61A471MA01#	
				±10%	GRM022R61A681KE19#	
				±20%	GRM022R61A681ME19#	
				±10%	GRM022R61A102KE19#	
				±20%	GRM022R61A102ME19#	
				±10%	GRM022R61A152KE19#	
				±20%	GRM022R61A152ME19#	
				±10%	GRM022R61A222KE19#	
				±20%	GRM022R61A222ME19#	
				±10%	GRM022R61A332KE19#	
				±20%	GRM022R61A332ME19#	
				±10%	GRM022R61A472KE19#	
				±20%	GRM022R61A472ME19#	
				±10%	GRM022R61A682KE19#	
				±20%	GRM022R61A682ME19#	
				±10%	GRM022R61A103KE19#	
				±20%	GRM022R61A103ME19#	
				6.3Vdc	±20%	GRM022R60J102ME19#
					±20%	GRM022R60J152ME19#
					±20%	GRM022R60J222ME19#
					±20%	GRM022R60J332ME19#
					±20%	GRM022R60J472ME19#
					±20%	GRM022R60J682ME19#
					±20%	GRM022R60J103ME19#
					±20%	GRM022R60J153ME15#
					±20%	GRM022R60J223KE15#
					±20%	GRM022R60J223ME15#
					±20%	GRM022R60J333ME15#
					±20%	GRM022R60J473ME15#
					±20%	GRM022R60J683ME15#
					±20%	GRM022R60J104ME15#
					B	D1
						1000pF
						1500pF
						2200pF
						3300pF
						4700pF
						6800pF
					4Vdc	D1
						1000pF
						1500pF
						2200pF
						3300pF
						4700pF
						6800pF
						10000pF

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	10Vdc	X5R	10000pF	±10%	GRM022R61A103KE19#	
				±20%	GRM022R61A103ME19#	
		B	100pF	±10%	GRM022B11A101KA01#	
				±20%	GRM022B11A101MA01#	
			150pF	±10%	GRM022B11A151KA01#	
				±20%	GRM022B11A151MA01#	
			220pF	±10%	GRM022B11A221KA01#	
				±20%	GRM022B11A221MA01#	
			330pF	±10%	GRM022B11A331KA01#	
				±20%	GRM022B11A331MA01#	
			470pF	±10%	GRM022B11A471KA01#	
				±20%	GRM022B11A471MA01#	
			680pF	±10%	GRM022B31A681KE19#	
				±20%	GRM022B31A681ME19#	
			1000pF	±10%	GRM022B31A102KE19#	
				±20%	GRM022B31A102ME19#	
			1500pF	±10%	GRM022B31A152KE19#	
				±20%	GRM022B31A152ME19#	
			2200pF	±10%	GRM022B31A222KE19#	
				±20%	GRM022B31A222ME19#	
			3300pF	±10%	GRM022B31A332KE19#	
				±20%	GRM022B31A332ME19#	
			4700pF	±10%	GRM022B31A472KE19#	
				±20%	GRM022B31A472ME19#	
			6800pF	±10%	GRM022B31A682KE19#	
				±20%	GRM022B31A682ME19#	
			10000pF	±10%	GRM022B31A103KE19#	
				±20%	GRM022B31A103ME19#	
		B	1000pF	±20%	GRM022B30J102ME19#	
				±20%	GRM022B30J152ME19#	
			2200pF	±20%	GRM022B30J222ME19#	
				±20%	GRM022B30J332ME19#	
			4700pF	±20%	GRM022B30J472ME19#	
				±20%	GRM022B30J682ME19#	
			6800pF	±20%	GRM022B30J682ME19#	
				±20%	GRM022B30J103ME19#	
			0.10μF	±20%	GRM022R60J104ME15#	D1
		X5R	15000pF	±10%	GRM022R60G153KE15#	
				±20%	GRM022R60G153ME15#	
			22000pF	±10%	GRM022R60G223KE15#	
				±20%	GRM022R60G223ME15#	
			0.10μF	±20%	GRM022D80G104ME15#	D1

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	4Vdc	X5R	33000pF	±10%	GRM022R60G333KE15#
				±20%	GRM022R60G333ME15#
			47000pF	±10%	GRM022R60G473KE15#
				±20%	GRM022R60G473ME15#
			68000pF	±20%	GRM022R60G683ME15#
				0.10μF	±20% GRM022R60G104ME15#
				2.5Vdc	X6T 0.10μF ±20% GRM022D80E104ME15#

0.6×0.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	X7R	100pF	±10%	GRM033R71H101KA12#
				±20%	GRM033R71H101MA12#
			150pF	±10%	GRM033R71H151KA12#
				±20%	GRM033R71H151MA12#
			220pF	±10%	GRM033R71H221KA12#
				±20%	GRM033R71H221MA12#
			330pF	±10%	GRM033R71H331KA12#
				±20%	GRM033R71H331MA12#
			470pF	±10%	GRM033R71H471KA12#
				±20%	GRM033R71H471MA12#
			680pF	±10%	GRM033R71H681KA12#
				±20%	GRM033R71H681MA12#
			1000pF	±10%	GRM033R71H102KA12#
				±20%	GRM033R71H102MA12#
			1500pF	±10%	GRM033R71H152KA12#
				±20%	GRM033R71H152MA12#
		B	100pF	±10%	GRM033B31H101KA12#
				±20%	GRM033B31H101MA12#
			150pF	±10%	GRM033B31H151KA12#
				±20%	GRM033B31H151MA12#
			220pF	±10%	GRM033B31H221KA12#
				±20%	GRM033B31H221MA12#
			330pF	±10%	GRM033B31H331KA12#
				±20%	GRM033B31H331MA12#
			470pF	±10%	GRM033B31H471KA12#
				±20%	GRM033B31H471MA12#
			680pF	±10%	GRM033B31H681KA12#
				±20%	GRM033B31H681MA12#
			1000pF	±10%	GRM033B31H102KA12#
				±20%	GRM033B31H102MA12#
			1500pF	±10%	GRM033B31H152KA12#
				±20%	GRM033B31H152MA12#
		35Vdc	X5R	0.10μF	±10% GRM033R6YA104KE14# D1
					±20% GRM033R6YA104ME14# D1
		25Vdc	X7R	1000pF	±10% GRM033R71E102KA01#
					±10% GRM033R71E152KA01#
				1500pF	±10% GRM033R71E222KA12#
					±20% GRM033R71E222MA12#
				2200pF	±10% GRM033R71E332KA12#
					±20% GRM033R71E332MA12#
				3300pF	±10% GRM033R71E472KA12#
					±20% GRM033R71E472MA12#
		16Vdc	X7R	4700pF	±10% GRM033R71C472KE14#
					±20% GRM033R71C472ME14#
				6800pF	±10% GRM033R71C682KE14#
					±20% GRM033R71C682ME14#
				10000pF	±10% GRM033R71C103KE14#
					±20% GRM033R71C103ME14#
				X7S	0.10μF ±10% GRM033C71C104KE14# D1
					±20% GRM033C71C104ME14# D1
		R	2200pF	±10%	GRM033R11C222KA88#
				±10%	GRM033R11C332KA88#
		X6S	3300pF	±10%	GRM033C81C104KE14#
				±20%	GRM033C81C104ME14#
		X5R	10000pF	±10%	GRM033R61C103KA12#
				±20%	GRM033R61C103MA12#
				15000pF	±10% GRM033R61C153KE84# D1
					±20% GRM033R61C153ME84# D1
				22000pF	±10% GRM033R61C223KE84# D1
					±20% GRM033R61C223ME84# D1
				33000pF	±10% GRM033R61C333KE84# D1
					±20% GRM033R61C333ME84# D1

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	16Vdc	X5R	47000pF	±10%	GRM033R61C473KE84#	D1
				±20%	GRM033R61C473ME84#	D1
			68000pF	±10%	GRM033R61C683KE84#	D1
				±20%	GRM033R61C683ME84#	D1
			0.10μF	±10%	GRM033R61C104KE14#	
				±20%	GRM033R61C104ME14#	
		B	2200pF	±10%	GRM033B31C222KA87#	
				±20%	GRM033B31C222MA87#	
			3300pF	±10%	GRM033B31C332KA87#	
				±20%	GRM033B31C332MA87#	
			10000pF	±10%	GRM033B31C103KA12#	
				±20%	GRM033B31C103MA12#	
			15000pF	±10%	GRM033B31C153KE84#	D1
				±20%	GRM033B31C153ME84#	D1
		22000pF	22000pF	±10%	GRM033B31C223KE84#	D1
				±20%	GRM033B31C223ME84#	D1
			33000pF	±10%	GRM033B31C333KE84#	D1
				±20%	GRM033B31C333ME84#	D1
			47000pF	±10%	GRM033B31C473KE84#	D1
				±20%	GRM033B31C473ME84#	D1
			68000pF	±10%	GRM033B31C683KE84#	D1
				±20%	GRM033B31C683ME84#	D1
		X7R	0.10μF	±10%	GRM033R71A104KE84#	D1
				±20%	GRM033R71A104ME84#	D1
			4700pF	±10%	GRM033R71A472KA01#	
				±20%	GRM033R71A472MA01#	
			6800pF	±10%	GRM033R71A682KA01#	
				±20%	GRM033R71A682MA01#	
			10000pF	±10%	GRM033R71A103KA01#	
				±20%	GRM033R71A103MA01#	
		X7S	0.10μF	±10%	GRM033C71A104KE14#	
				±20%	GRM033C71A104ME14#	
			4700pF	±10%	GRM033R11A472KA01#	
				±20%	GRM033R11A472MA01#	
			6800pF	±10%	GRM033R11A682KA01#	
				±20%	GRM033R11A682MA01#	
			10000pF	±10%	GRM033R11A103KA01#	
				±20%	GRM033R11A103MA01#	
		X5R	0.10μF	±10%	GRM033R61A472KA01#	
				±20%	GRM033R61A472MA01#	
			4700pF	±10%	GRM033R61A682KA01#	
				±20%	GRM033R61A682MA01#	
			15000pF	±10%	GRM033R61A153KE84#	
				±20%	GRM033R61A153ME84#	
			22000pF	±10%	GRM033R61A223KE84#	
				±20%	GRM033R61A223ME84#	
			33000pF	±10%	GRM033R61A333KE84#	
				±20%	GRM033R61A333ME84#	
			47000pF	±10%	GRM033R61A473KE84#	
				±20%	GRM033R61A473ME84#	
			68000pF	±10%	GRM033R61A683KA01#	
				±20%	GRM033R61A683MA01#	
			0.10μF	±10%	GRM033R61A104KE84#	
				±20%	GRM033R61A104ME84#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	10Vdc	X5R	0.22μF	±20%	GRM033R61A224ME90#	D1
B	4700pF	4700pF	±10%	GRM033B11A472KA01#		
		6800pF	±20%	GRM033B11A472MA01#		
	15000pF	±10%	GRM033B11A682KA01#			
		±20%	GRM033B11A682MA01#			
	22000pF	±10%	GRM033B31A223KE84#			
		±20%	GRM033B31A223ME84#			
	33000pF	±10%	GRM033B31A333KE84#			
		±20%	GRM033B31A333ME84#			
	47000pF	±10%	GRM033B31A473KE84#			
		±20%	GRM033B31A473ME84#			
6.3Vdc	X7R	4700pF	±10%	GRM033R70J472KA01#		
		6800pF	±10%	GRM033R70J682KA01#		
		10000pF	±10%	GRM033R70J103KA01#		
	R	4700pF	±10%	GRM033R10J472KA01#		
		6800pF	±10%	GRM033R10J682KA01#		
		10000pF	±10%	GRM033R10J103KA01#		
	X6S	15000pF	±10%	GRM033C80J153KE01#		
		±20%	GRM033C80J153ME01#			
		22000pF	±10%	GRM033C80J223KE01#		
		±20%	GRM033C80J223ME01#			
		33000pF	±10%	GRM033C80J333KE01#		
		±20%	GRM033C80J333ME01#			
		47000pF	±10%	GRM033C80J473KE19#		
		±20%	GRM033C80J473ME19#			
4Vdc	X5R	68000pF	±10%	GRM033C80J683KE84#	D1	
		±20%	GRM033C80J683ME84#	D1		
	B	0.10μF	±10%	GRM033C80J104KE84#	D1	
		±20%	GRM033C80J104ME84#	D1		
	X5R	0.22μF	±20%	GRM033R60J224ME90#		
		4700pF	±10%	GRM033B10J472KA01#		
	B	6800pF	±10%	GRM033B10J682KA01#		
		15000pF	±10%	GRM033B10J153KE01#		
	X5R	22000pF	±10%	GRM033B10J223KE01#		
		33000pF	±10%	GRM033B10J333KE01#		
		±20%	GRM033B10J333ME01#			

### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	10Vdc	X5R	0.10μF	±10%	GRM152R61A104KE19#	D1
				±20%	GRM152R61A104ME19#	D1
				±10%	GRM152R61A224KE19#	D1

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.22mm	10Vdc	X5R	0.22μF	±20%	GRM152R61A224ME19#	D1	0.3mm	50Vdc	B	680pF	±20%	GRM15XB11H681MA86#	
			0.10μF	±10%	GRM152B31A104KE19#	D1				1000pF	±10%	GRM15XB11H102KA86#	
		B		±20%	GRM152B31A104ME19#	D1				1500pF	±10%	GRM15XB11H102MA86#	
			0.22μF	±10%	GRM152B31A224KE19#	D1					±20%	GRM15XB11H152KA86#	
				±20%	GRM152B31A224ME19#	D1					±20%	GRM15XB11H152MA86#	
	6.3Vdc	X6S	0.10μF	±10%	GRM152C80J104KE19#	D1		25Vdc	X7R	2200pF	±10%	GRM15XR71E222KA86#	
				±20%	GRM152C80J104ME19#	D1					±20%	GRM15XR71E222MA86#	
		X5R	0.22μF	±10%	GRM152C80J224KE19#	D1		B	2200pF		±10%	GRM15XB11E222KA86#	
				±20%	GRM152C80J224ME19#	D1					±20%	GRM15XB11E222MA86#	
			0.47μF	±20%	GRM152R60J474ME15#	D1							
		B	1.0μF	±20%	GRM152R60J105ME15#	D1		16Vdc	X7R	3300pF	±10%	GRM15XR71C332KA86#	
				±20%	GRM152B30J104KE19#						±20%	GRM15XR71C332MA86#	
			0.22μF	±10%	GRM152B30J224KE19#						±10%	GRM15XR71C472KA86#	
				±20%	GRM152B30J224ME19#						±20%	GRM15XR71C472MA86#	
		X7T	0.47μF	±20%	GRM152B30J474ME15#	D1					±10%	GRM15XR71C682KA86#	
				±20%	GRM152B30J474ME15#	D1					±20%	GRM15XR71C682MA86#	
			0.10μF	±10%	GRM152D70G104KE15#	D1		B	3300pF		±10%	GRM15XB11C332KA86#	
				±20%	GRM152D70G104ME15#	D1					±20%	GRM15XB11C332MA86#	
		X6S	0.22μF	±10%	GRM152D70G224KE15#	D1					±10%	GRM15XB11C472KA86#	
				±20%	GRM152D70G224ME15#	D1					±20%	GRM15XB11C472MA86#	
		X6T	0.10μF	±10%	GRM152C80G104KE19#						±10%	GRM15XB11C682KA86#	
				±20%	GRM152C80G104ME19#						±20%	GRM15XB11C682MA86#	
			0.22μF	±10%	GRM152C80G224KE19#						±20%	GRM15XB11C682MA86#	
				±20%	GRM152C80G224ME19#						±10%	GRM15XB11C103KA86#	
		X5R	0.47μF	±20%	GRM152D80G474ME15#						±20%	GRM15XB11C103MA86#	
			1.0μF	±20%	GRM152D80G105ME15#	D1					±20%	GRM15XB11C103MA86#	
		X7T	1.0μF	±20%	GRM152R60G105ME15#						±20%	GRM15XB11C103MA86#	
			0.10μF	±10%	GRM152D70E104KE19#						±20%	GRM15XB11C103MA86#	
				±20%	GRM152D70E104ME19#						±20%	GRM15XB11C103MA86#	
			0.22μF	±10%	GRM152D70E224KE19#						±20%	GRM15XB11C103MA86#	
		2.5Vdc		±20%	GRM152D70E224ME19#						±20%	GRM15XB11C103MA86#	
		X7T	0.10μF	±10%	GRM152D70E104KE19#						±20%	GRM15XB11C103MA86#	
				±20%	GRM152D70E104ME19#						±20%	GRM15XB11C103MA86#	
			0.22μF	±10%	GRM152D70E224KE19#						±20%	GRM15XB11C103MA86#	
				±20%	GRM152D70E224ME19#						±20%	GRM15XB11C103MA86#	
			0.10μF	±10%	GRM152C80G104KE19#						±20%	GRM15XB11C103MA86#	
		X6S		±20%	GRM152C80G104ME19#						±20%	GRM15XB11C103MA86#	
			0.22μF	±10%	GRM152C80G224KE19#						±20%	GRM15XB11C103MA86#	
				±20%	GRM152C80G224ME19#						±20%	GRM15XB11C103MA86#	
			0.47μF	±20%	GRM152D80G474ME15#						±20%	GRM15XB11C103MA86#	
			1.0μF	±20%	GRM152D80G105ME15#	D1					±20%	GRM15XB11C103MA86#	
		X6T	1.0μF	±20%	GRM152D80G105ME15#	D1					±20%	GRM15XB11C103MA86#	
			0.10μF	±10%	GRM152R60G105ME15#	D1					±20%	GRM15XB11C103MA86#	
				±20%	GRM152R60G105ME15#	D1					±20%	GRM15XB11C103MA86#	
			0.22μF	±10%	GRM152R60G105ME15#	D1					±20%	GRM15XB11C103MA86#	
				±20%	GRM152R60G105ME15#	D1					±20%	GRM15XB11C103MA86#	
		X5R	0.10μF	±10%	GRM152R71H221KA86#			10Vdc	X5R	15000pF	±10%	GRM15XR61A153KA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A153MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A223KA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A223MA86#	
			0.47μF	±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333KA86#	
		X6S	1.0μF	±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
			0.47μF	±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
		X6T	1.0μF	±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
			0.47μF	±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
		X5R	1.0μF	±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
			0.47μF	±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
		X6S	1.0μF	±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
			0.47μF	±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
		X6T	1.0μF	±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±20%	GRM15XR61A333MA86#	
			0.22μF	±10%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
				±20%	GRM152R71H221KA86#						±10%	GRM15XR61A333MA86#	
			0.47μF	±20%	GRM152R71H221KA86#								

## GRM Series High Dielectric Constant Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	50Vdc	X7R	4700pF	±10%	GRM155R71H472KA01#	0.55mm	50Vdc	B	4700pF	±10%	GRM155B11H472KA01#	
			6800pF	±10%	GRM155R71H682KA88#				6800pF	±20%	GRM155B11H472MA01#	
			10000pF	±10%	GRM155R71H103KA88#				10000pF	±10%	GRM155B31H682KA88#	
			15000pF	±10%	GRM155R71H153KA12#				15000pF	±20%	GRM155B31H103MA88#	
			22000pF	±10%	GRM155R71H223KA12#				22000pF	±10%	GRM155B31H223KA12#	
			33000pF	±10%	GRM155R71H333KE14#				33000pF	±20%	GRM155B31H103MA12#	
				±20%	GRM155R71H333ME14#					0.10μF	±10%	GRM155B31H104KE14#
			47000pF	±10%	GRM155R71H473KE14#						±20%	GRM155B31H104ME14#
				±20%	GRM155R71H473ME14#							D1
		R	68000pF	±10%	GRM155R71H683KE14#						±20%	GRM155C8YA224ME01# D1
				±20%	GRM155R71H683ME14#							D1
			100pF	±10%	GRM155R71H104KE14#							D1
				±20%	GRM155R71H104ME14#							D1
		X6S	220pF	±10%	GRM155R11H221KA01#							D1
			330pF	±10%	GRM155R11H331KA01#							D1
			470pF	±10%	GRM155R11H471KA01#							D1
			680pF	±10%	GRM155R11H681KA01#							D1
			1000pF	±10%	GRM155R11H102KA01#							D1
			1500pF	±10%	GRM155R11H152KA01#							D1
			2200pF	±10%	GRM155R11H222KA01#							D1
			3300pF	±10%	GRM155R11H332KA01#							D1
			4700pF	±10%	GRM155R11H472KA01#							D1
			6800pF	±10%	GRM155R11H682KA88#							D1
			10000pF	±10%	GRM155R11H103KA88#							D1
		X5R	33000pF	±10%	GRM155C81H333KE14#							D1
				±20%	GRM155C81H333ME14#							D1
			47000pF	±10%	GRM155C81H473KE14#							D1
				±20%	GRM155C81H473ME14#							D1
			68000pF	±10%	GRM155C81H683KE14#							D1
				±20%	GRM155C81H683ME14#							D1
		X5R	33000pF	±10%	GRM155R61H333KE14#							D1
				±20%	GRM155R61H333ME14#							D1
			47000pF	±10%	GRM155R61H473KE14#							D1
				±20%	GRM155R61H473ME14#							D1
			68000pF	±10%	GRM155R61H683KE14#							D1
				±20%	GRM155R61H683ME14#							D1
		X5R	100pF	±10%	GRM155R61H104KE14#							D1
				±20%	GRM155R61H104ME14#							D1
		B	220pF	±10%	GRM155B11H221KA01#							D1
				±20%	GRM155B11H221MA01#							D1
			330pF	±10%	GRM155B11H331KA01#							D1
				±20%	GRM155B11H331MA01#							D1
			470pF	±10%	GRM155B11H471KA01#							D1
				±20%	GRM155B11H471MA01#							D1
			680pF	±10%	GRM155B11H681KA01#							D1
				±20%	GRM155B11H681MA01#							D1
			1000pF	±10%	GRM155B11H102KA01#							D1
				±20%	GRM155B11H102MA01#							D1
			1500pF	±10%	GRM155B11H152KA01#							D1
				±20%	GRM155B11H152MA01#							D1
			2200pF	±10%	GRM155B11H222KA01#							D1
				±20%	GRM155B11H222MA01#							D1
			3300pF	±10%	GRM155B11H332KA01#							D1
				±20%	GRM155B11H332MA01#							D1
		B	2200pF	±10%	GRM155B11H222KA01#							D1
			10000pF	±10%	GRM155B11H103KA01#							D1
				±20%	GRM155B11H103MA01#							D1
			15000pF	±10%	GRM155B11E153KA61#							D1
			22000pF	±10%	GRM155B11E223KA61#							D1
			33000pF	±10%	GRM155B11E333KA88#							D1
			47000pF	±10%	GRM155B11E473KA88#							D1
			68000pF	±10%	GRM155B11E683KA14#							D1
				±20%	GRM155B11E683ME14#							D1
			0.10μF	±10%	GRM155B11E104KE14#							D1
				±20%	GRM155B11E104ME14#							D1
			0.22μF	±10%	GRM155C81E224KE01#							D1
				±20%	GRM155C81E224ME01#							D1
		X5R	0.22μF	±10%	GRM155R6YA224KE01# D1							D1
				±20%	GRM155R6YA224ME01# D1							D1
			0.47μF	±10%	GRM155R6YA474KE01# D1							D1
				±20%	GRM155R6YA474ME01# D1							D1
		B	2200pF	±10%	GRM155R71E222KA01#							D1
			10000pF	±10%	GRM155R71E103KA01#							D1
				±20%	GRM155R71E103MA01#							D1
			15000pF	±10%	GRM155R71E153KA61#							D1
			22000pF	±10%	GRM155R71E223KA61#							D1
			33000pF	±10%	GRM155R71E333KA88#							D1
			47000pF	±10%	GRM155R71E473KA88#							D1
		X6S	0.22μF	±10%	GRM155C81E224KE01#							D1
				±20%	GRM155C81E224ME01#							D1
			0.10μF	±10%	GRM155R61E682KA87#							D1
				±20%	GRM155R61E683MA87#							D1
			0.22μF	±10%	GRM155R61E683KA87#							D1
				±20%	GRM155R61E683ME87#							D1
			0.47μF	±10%	GRM155R61E474KE01#							D1
				±20%	GRM155R61E474ME01#							D1
			1.0μF	±10%	GRM155R61E105KA12# D1							D1
				±20%	GRM155R61E105MA12# D1							D1
		B	2200pF	±10%	GRM155B11E222KA01#							D1
			10000pF	±10%	GRM155B11E103KA01#							D1
				±20%	GRM155B11E103MA01#							D1
			15000pF	±10%	GRM155B11E153KA61#							D1
			22000pF	±10%	GRM155B11E223KA61#							D1
			33000pF	±10%	GRM155B31E333KA87#							D1

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		
0.55mm	25Vdc	B	33000pF	±20%	GRM155B31E333MA87#	0.55mm	10Vdc	B	0.47μF	±10%	GRM155B31A474KE14#		
			47000pF	±10%	GRM155B31E473KA87#					±20%	GRM155B31A474ME14#		
				±20%	GRM155B31E473MA87#				0.68μF	±10%	GRM155B31A684KE15#		
			68000pF	±10%	GRM155B31E683KA87#					±20%	GRM155B31A684ME15#		
				±20%	GRM155B31E683MA87#				1.0μF	±20%	GRM155B31A105ME01#		
			0.10μF	±10%	GRM155B31E104KA87#					2.2μF	±10%	GRM155B31A225KE95#	
				±20%	GRM155B31E104MA87#						±20%	GRM155B31A225ME95#	
			1.0μF	±10%	GRM155B31E105KA12#				D1			D1	
				±20%	GRM155B31E105MA12#				D1			D1	
16Vdc	X7R	X7R	4700pF	±10%	GRM155R71C472KA01#	6.3Vdc	X7R	X7R	1.0μF	±10%	GRM155R70J105KA12#	D1	
				±10%	GRM155R71C103KA01#					±20%	GRM155R70J105MA12#	D1	
				±20%	GRM155R71C103MA01#				X6S	0.22μF	±10%	GRM155C80J224KE01#	
			68000pF	±10%	GRM155R71C683KA88#						±20%	GRM155C80J224ME01#	
				0.15μF	±10%	GRM155R71C154KA12#				2.2μF	±10%	GRM155C80J225KE95#	
				0.22μF	±10%	GRM155R71C224KA12#					±20%	GRM155C80J225ME95#	
			R	68000pF	±10%	GRM155R11C683KA88#			X5R	0.10μF	±10%	GRM155R60J104KA01#	
			X6S	0.47μF	±10%	GRM155C81C474KE01#					±20%	GRM155R60J104MA01#	
					±20%	GRM155C81C474ME01#			0.15μF	±10%	GRM155R60J154KE01#		
			X5R	0.22μF	±10%	GRM155R61C224KA12#				±20%	GRM155R60J154ME01#		
					±20%	GRM155R61C224MA12#			0.22μF	±10%	GRM155R60J224KE01#		
				0.47μF	±10%	GRM155R61C474KE01#				±20%	GRM155R60J334KE01#		
					±20%	GRM155R61C474ME01#			0.33μF	±10%	GRM155R60J334ME01#		
				1.0μF	±10%	GRM155R61C105KA12#				±20%	GRM155R60J474KE19#		
					±20%	GRM155R61C105MA12#			0.47μF	±10%	GRM155R60J474ME19#		
			B	10000pF	±10%	GRM155B11C103KA01#				±20%	GRM155R60J684KE19#		
					±20%	GRM155B11C103MA01#			0.68μF	±10%	GRM155R60J684ME19#		
				1.0μF	±10%	GRM155B31C105KA12#				±20%	GRM155R60J105ME19#		
10Vdc	X7R	X7R		±10%	GRM155R71A224KE01#	B			0.15μF	±10%	GRM155B10J154KE01#		
				±20%	GRM155R71A224ME01#					±20%	GRM155B10J154ME01#		
				0.47μF	±10%	GRM155R71A474KE01#				0.22μF	±10%	GRM155B10J224KE01#	
					±20%	GRM155R71A474ME01#					±20%	GRM155B10J224ME01#	
			X6S	1.0μF	±10%	GRM155C81A105KA12#				0.33μF	±10%	GRM155B10J334KE01#	
					±20%	GRM155C81A105MA12#					±20%	GRM155B10J334ME01#	
			X5R	33000pF	±10%	GRM155R61A333KA01#				0.47μF	±10%	GRM155B30J474KE18#	
					0.10μF	±10%	GRM155R61A104KA01#				±20%	GRM155B30J474ME18#	
						±20%	GRM155R61A104MA01#		0.68μF	±10%	GRM155B30J684KE18#		
				0.15μF	±10%	GRM155R61A154KE19#				±20%	GRM155B30J684ME18#		
10Vdc	X7R	X7R			±20%	GRM155R61A154ME19#			1.0μF	±20%	GRM155B30J105ME18#		
				0.22μF	±10%	GRM155R61A224KE19#				±20%	GRM155B30J225KE95#		
					±20%	GRM155R61A224ME19#			2.2μF	±10%	GRM155B30J225ME95#		
				0.33μF	±10%	GRM155R61A334KE15#				±20%	GRM155B30J474KE18#		
					±20%	GRM155R61A334ME15#				±20%	GRM155B30J474ME18#		
				0.47μF	±10%	GRM155R61A474KE15#				±20%	GRM155B30J684KE18#		
					±20%	GRM155R61A474ME15#				±20%	GRM155B30J684ME18#		
				0.68μF	±10%	GRM155R61A684KE15#				±20%	GRM155B30J844KE18#		
					±20%	GRM155R61A684ME15#				±20%	GRM155B30J844ME18#		
				1.0μF	±20%	GRM155R61A105ME01#							
B	B	B	0.15μF	±10%	GRM155B31A154KE18#	0.6mm	35Vdc	X5R	1.0μF	±10%	GRM155R6YA105KE11#	D1	
				±20%	GRM155B31A154ME18#						±20%	GRM155R6YA105ME11#	D1
			0.22μF	±10%	GRM155B31A224KE18#					0.22μF	±10%	GRM155C80G224KE01#	
					±20%	GRM155B31A224ME18#					±20%	GRM155C80G224ME01#	
			0.33μF	±10%	GRM155B31A334KE14#	X5R			1.0μF	±20%	GRM155R60G105ME01#		
					±20%	GRM155B31A334ME14#							
			16Vdc	X6S	1.0μF	±10%	GRM155C81C105KE11#						
						±20%	GRM155C81C105ME11#						
			6.3Vdc	X5R	4.7μF	±20%	GRM155R60J475ME47#						
								B	4.7μF	±20%	GRM155B30J475ME47#	D1	
4Vdc	X7R	X7R	1.0μF	±10%	GRM155R70G105KA12#								
				±20%	GRM155R70G105MA12#								
X6S	X6S	X6S	0.22μF	±10%	GRM155C80G224KE01#								
				±20%	GRM155C80G224ME01#								
X5R	X5R	X5R	1.0μF	±20%	GRM155R60G105ME01#								
25Vdc	X6S	X6S	1.0μF	±10%	GRM155C81E105KE11#								
				±20%	GRM155C81E105ME11#								
16Vdc	X6S	X6S	1.0μF	±10%	GRM155C81C105KE11#								
				±20%	GRM155C81C105ME11#								
6.3Vdc	X5R	X5R	4.7μF	±20%	GRM155R60J475ME47#								
								B	4.7μF	±20%	GRM155B30J475ME47#	D1	
4Vdc	X5R	X5R	4.7μF	±20%	GRM155R60G475ME47#								
								B	4.7μF	±20%	GRM155B30G475ME47#	D1	

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.6mm	2.5Vdc	X6T	4.7μF	±20%	GRM155D80E475ME47#	D1
0.65mm	10Vdc	X5R	4.7μF	±20%	GRM155R61A475MEAA#	D1
	6.3Vdc	X6S	4.7μF	±20%	GRM155C80J475MEAA#	D1
0.7mm	25Vdc	X5R	2.2μF	±10%	GRM155R61E225KE11#	
				±20%	GRM155R61E225ME11#	
16Vdc	X6S	2.2μF	±10%	GRM155C81C225KE11#		
				±20%	GRM155C81C225ME11#	
	X5R	2.2μF	±10%	GRM155R61C225KE11#		
				±20%	GRM155R61C225ME11#	
10Vdc	X7S	2.2μF	±10%	GRM155C71A225KE11#		
				±20%	GRM155C71A225ME11#	
	X6S	2.2μF	±10%	GRM155C81A225KE11#		
				±20%	GRM155C81A225ME11#	
6.3Vdc	X7S	2.2μF	±10%	GRM155C70J225KE11#		
				±20%	GRM155C70J225ME11#	
	X7S	2.2μF	±10%	GRM155R60G106ME44#		
				±20%	GRM155R60E106ME16#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	50Vdc	X5R	1.0μF	±10%	GRM188R61H105KAAL#	
				±20%	GRM188R61H105MAAL#	
	B	1.0μF	±10%	GRM188B31H105KAAL#		
				±20%	GRM188B31H105MAAL#	
35Vdc	X7R	0.47μF	±10%	GRM188R7YA474KE05#		
				±20%	GRM188R7YA474ME05#	
	X7R	1.0μF	±10%	GRM188R71E105KA12#		
				±20%	GRM188R71E105MA12#	
25Vdc	X5R	1.0μF	±10%	GRM188R61E105KA12#		
				±20%	GRM188R61E105MA12#	
		2.2μF	±10%	GRM188R61E225KA12#		
				±20%	GRM188R61E225MA12#	
	B	1.0μF	±10%	GRM188B31E105KA75#		
				±20%	GRM188B31E105MA75#	
		2.2μF	±10%	GRM188B31E225KA12#		
				±20%	GRM188B31E225MA12#	
16Vdc	X7R	1.0μF	±10%	GRM188R71C105KE15#		
				±20%	GRM188R71C105ME15#	
	X6S	2.2μF	±10%	GRM188C81C225KA12#		
				±20%	GRM188C81C225MA12#	
X5R	1.0μF	±10%	GRM188R61C105KA93#			
			±20%	GRM188R61C105MA93#		
	2.2μF	±10%	GRM188R61C225KE15#			
			±20%	GRM188R61C225MA15#		
B	1.0μF	±10%	GRM188B31C105KA92#			
			±20%	GRM188B31C105MA92#		
	2.2μF	±10%	GRM188B31C225KE14#			
			±20%	GRM188B31C225MA15#		
10Vdc	X7R	2.2μF	±10%	GRM188R71A225KE15#		
				±20%	GRM188R71A225ME15#	
	X5R	4.7μF	±10%	GRM188R61A475KE15#	D1	
				±20%	GRM188R61A475ME15#	D1
6.3Vdc	X6S	4.7μF	±20%	GRM188C80J475ME15#	D1	
				±20%	GRM188R60J106ME47#	
	X5R	10μF	±20%	GRM188B30J106ME47#		
				±20%	GRM188R60G106ME47#	
0.95mm	25Vdc	X5R	4.7μF	±10%	GRM188R61E475KE11#	
				±20%	GRM188R61E475ME11#	
	16Vdc	X6S	4.7μF	±10%	GRM188C81C475KE11#	
				±20%	GRM188C81C475ME11#	
X5R	4.7μF	±10%	GRM188R61C475KE11#			
			±20%	GRM188R61C475MA11#		
	10μF	±10%	GRM188R61C106KAAL#			
			±20%	GRM188R61C106MAAL#		
B	4.7μF	±10%	GRM188B31C475KAAJ#	D1		
			±20%	GRM188B31C475MAAJ#	D1	
	10μF	±10%	GRM188R61C106KAAL#			
			±20%	GRM188R61C106MAAL#		
10Vdc	X7S	4.7μF	±10%	GRM188C71A475KE11#		
				±20%	GRM188C71A475ME11#	
	X5R	10μF	±10%	GRM188R61A106KAAL#		
				±20%	GRM188R61A106MAAL#	
1.0mm	50Vdc	X5R	2.2μF	±10%	GRM188R61H225KE11#	
				±20%	GRM188R61H225ME11#	
	35Vdc	X6S	2.2μF	±10%	GRM188C8Y4225KE11#	
				±20%	GRM188C8Y4225ME11#	
				±10%	GRM188R6Y4475KE15#	

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	35Vdc	X5R	4.7μF	±20%	GRM188R6YA475ME15#
		X7S	2.2μF	±10%	GRM188C71E225KE11#
				±20%	GRM188C71E225ME11#
	X6S	2.2μF	±10%	GRM188C81E225KE11#	
			4.7μF	±20%	GRM188C81E225ME11#
		X5R	±10%	GRM188C81E475KE11# <b>D1</b>	
			10μF	±20%	GRM188C81E475ME11# <b>D1</b>
				±20%	GRM188R61E106MA73#
	16Vdc	X7S	2.2μF	±10%	GRM188C71C225KE11#
				±20%	GRM188C71C225ME11#
		X6S	10μF	±20%	GRM188C81C106MA73#
	10Vdc	X7T	10μF	±20%	GRM188D71A106MA73#
	6.3Vdc	X7T	10μF	±20%	GRM188D70J106MA73#
		X5R	22μF	±20%	GRM188R60J226MEA0# <b>D1</b>
			22μF	±20%	GRM188B30J226MEA0# <b>D1</b>
	4Vdc	X6S	22μF	±20%	GRM188C80G226MEA0# <b>D1</b>
		X5R	22μF	±20%	GRM188R60G226MEA0#
		B	22μF	±20%	GRM188B30G226MEA0#

2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.7mm	16Vdc	X6S	1.0μF	±10%	GRM216C81C105KA12#
		X5R	1.0μF	±10%	GRM219R61H105KA73#
				±20%	GRM219R61H105MA73#
	35Vdc	2.2μF	±10%	GRM219R61H225KE15#	
			4.7μF	±20%	GRM219R61H225ME15#
		B	1.0μF	±10%	GRM219B31H105KA73#
			2.2μF	±20%	GRM219B31H105MA73#
				±20%	GRM219B31H225KE15#
	25Vdc	X6S	2.2μF	±10%	GRM219C8YA225KE15#
				±20%	GRM219C8YA225ME15#
		X5R	4.7μF	±10%	GRM219R6YA475KA73# <b>D1</b>
			10μF	±20%	GRM219R6YA475MA73# <b>D1</b>
				±20%	GRM219R61E106KA12# <b>D1</b>
	16Vdc	X7R	1.0μF	±10%	GRM219R71E105KA88#
			X6S	±10%	GRM219C81E225KE15#
		X5R	2.2μF	±20%	GRM219C81E225ME15#
			4.7μF	±10%	GRM219R61E225KA12#
				±20%	GRM219R61E225MA12#
	16Vdc	X7R	2.2μF	±10%	GRM219R61E475KA73#
			10μF	±20%	GRM219R61E475MA73#
		X5R	4.7μF	±10%	GRM219B31E106KA12# <b>D1</b>
			10μF	±20%	GRM219B31E106MA12# <b>D1</b>
				±20%	GRM219B31E225KA75#
	16Vdc	X7R	2.2μF	±10%	GRM219R71C225KE15#
		X5R	4.7μF	±10%	GRM219R61C475KE15#
			10μF	±10%	GRM219R61C106KA73#
				±20%	GRM219R61C106MA73#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	16Vdc	X7R	4.7μF	±10%	GRM219B31C475KE15#
		X7T	2.2μF	±10%	GRM219B31C106KA73#
				±20%	GRM219B31C106MA73#
	X6S	2.2μF	±10%	GRM219R71A225KE15#	
			4.7μF	±20%	GRM219R71A225ME15#
		X5R	4.7μF	±10%	GRM219D71A475KE15# <b>D1</b>
			22μF	±20%	GRM219D71A475ME15# <b>D1</b>
				±20%	GRM219R61A226MEA0# <b>D1</b>
	6.3Vdc	X7T	4.7μF	±10%	GRM219D71A475ME15# <b>D1</b>
			22μF	±20%	GRM219R61A226MEA0# <b>D1</b>
		X5R	22μF	±20%	GRM219R60J226MEA0# <b>D1</b>
			22μF	±20%	GRM219B30J226ME47# <b>D1</b>
				±20%	GRM219C80G106ME19#
	4Vdc	X6S	10μF	±10%	GRM219C80G106KE19#
			47μF	±20%	GRM219R60G476ME44# <b>D1</b>
		X5R	47μF	±20%	GRM219D80E476ME44# <b>D1</b>
			47μF	±20%	GRM219D80E476ME44# <b>D1</b>
				±20%	GRM219R60G476ME44# <b>D1</b>
	1.0mm	X7R	1000pF	±10%	GRM21AR72H102KW10#
			1500pF	±10%	GRM21AR72H152KW10#
			2200pF	±10%	GRM21AR72H222KW10#
			3300pF	±10%	GRM21AR72H332KW10#
			4700pF	±10%	GRM21AR72H472KW10#
			6800pF	±10%	GRM21AR72H682KW10#
	250Vdc	X7R	1000pF	±10%	GRM21AR72E102KW01#
			1500pF	±10%	GRM21AR72E152KW01#
			2200pF	±10%	GRM21AR72E222KW01#
			3300pF	±10%	GRM21AR72E332KW01#
			4700pF	±10%	GRM21AR72E472KW01#
	200Vdc	X7R	6800pF	±10%	GRM21AR72E682KW01#
			1000pF	±10%	GRM21AR72D102KW01#
			1500pF	±10%	GRM21AR72D152KW01#
			2200pF	±10%	GRM21AR72D222KW01#
			3300pF	±10%	GRM21AR72D332KW01#
	35Vdc	X6S	4700pF	±10%	GRM21AR72D472KW01#
			6800pF	±10%	GRM21AR72D682KW01#
			1000pF	±10%	GRM21AR72D682KW01#
			1500pF	±10%	GRM21AR72D102KW01#
			2200pF	±10%	GRM21AR72D152KW01#
	1.35mm	X7S	4.7μF	±10%	GRM21AR72E475KE21# <b>D1</b>
			4.7μF	±20%	GRM219C8YA475ME21# <b>D1</b>
			4.7μF	±10%	GRM219C71E475KE21# <b>D1</b>
			4.7μF	±20%	GRM219C71E475ME21# <b>D1</b>
			4.7μF	±10%	GRM219C81E475KE21# <b>D1</b>
	16Vdc	X7S	4.7μF	±10%	GRM219C71C475KE21#
			4.7μF	±20%	GRM219C71C475ME21#
			22μF	±20%	GRM219R61C226ME15# <b>D1</b>
			22μF	±10%	GRM219R61H105KA12#
			1.0μF	±10%	GRM21BB31H105KA12#
	25Vdc	X6S	4.7μF	±10%	GRM21BC81E475KA12#
			4.7μF	±20%	GRM21BC81E475MA12#
			4.7μF	±10%	GRM21BR61E475KA12#
			4.7μF	±20%	GRM21BR61E475MA12#
			2.2μF	±10%	GRM21BB31E225KA75#
	25Vdc	X5R	4.7μF	±10%	GRM21BB31E225KA75#
			4.7μF	±20%	GRM21BB31E225MA75#
			2.2μF	±10%	GRM21BB31E225KA75#
			4.7μF	±10%	GRM21BB31E475KA75#
			4.7μF	±10%	GRM21BB31E475MA75#

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.35mm	25Vdc	B	4.7μF	±20%	GRM21BB31E475MA75#
		X7R	2.2μF	±10%	GRM21BR71C225KA12#
				±20%	GRM21BR71C225MA12#
		X5R	10μF	±10%	GRM21BR61C106KE15#
				±20%	GRM21BR61C106ME15#
	16Vdc	B	10μF	±10%	GRM21BB31C106KE15#
				±20%	GRM21BB31C106ME15#
		X5R	2.2μF	±10%	GRM21BR61H225KA73#
				±20%	GRM21BR61H225MA73#
		B	4.7μF	±10%	GRM21BR61H475KE51#
				±20%	GRM21BR61H475ME51#
	1.4mm	X5R	2.2μF	±10%	GRM21BB31H225KA73#
				±20%	GRM21BB31H225MA73#
			4.7μF	±10%	GRM21BB31H475KE51#
				±20%	GRM21BB31H475ME51#
			2.2μF	±10%	GRM21BB31H225KA73#
				±20%	GRM21BB31H225MA73#
			4.7μF	±10%	GRM21BB31H475KE51#
				±20%	GRM21BB31H475ME51#
	2.5Vdc	X7R	1.0μF	±10%	GRM21BR71E105KA99#
				±20%	GRM21BR71E225KE11#
			2.2μF	±10%	GRM21BR71E225ME11#
				±20%	GRM21BR71E475KA73# D1
			4.7μF	±10%	GRM21BR71E475KA73# D1
		R		±20%	GRM21BR71E475MA73# D1
		X5R	1.0μF	±10% GRM21BR11E105KA99#	
			±20%	GRM21BR61E106KA73#	
		B	10μF	±10%	GRM21BB31E106KA73#
				±20%	GRM21BB31E106MA73#
	16Vdc	X7R	4.7μF	±10%	GRM21BR71C475KA73#
				±20%	GRM21BR71C475MA73#
		X6S	10μF	±10%	GRM21BC81C106KA73#
				±20%	GRM21BC81C106MA73#
		X7R	4.7μF	±10%	GRM21BR71A475KA73#
				±20%	GRM21BR71A475MA73#
			10μF	±10%	GRM21BR71A106KE51#
				±20%	GRM21BR71A106ME51#
	1.45mm	B	22μF	±20%	GRM21BB31A226ME51# D1
				±20%	GRM21BB31A226ME51# D1
		X7R	10μF	±10%	GRM21BR70J106KE76#
				±20%	GRM21BR70J106ME76#
		X6S	22μF	±20%	GRM21BC80J226ME51# D1
				±20%	GRM21BE70G226ME51#
		X7U	22μF	±20%	GRM21BC80G226ME39#
				±20%	GRM21BC80G226ME39#
	1.45mm	X7R	10000pF	±10%	GRM21BR72H103KW09#
				±10%	GRM21BR72E103KW03#
			15000pF	±10%	GRM21BR72E153KW03#
				±10%	GRM21BR72E223KW03#
		X7R	10000pF	±10%	GRM21BR72D103KW03#
				±10%	GRM21BR72D153KW03#
			15000pF	±10%	GRM21BR72D223KW03#
				±10%	GRM21BR72D223KW03#
		X7S	4.7μF	±10%	GRM21BC71H475KE11#
				±20%	GRM21BC71H475ME11#
			X6S	±10%	GRM21BC81H475KE11#
				±20%	GRM21BC81H475ME11#
	35Vdc	X7S	4.7μF	±10%	GRM21BC71Y475KE11#
				±20%	GRM21BC71Y475ME11#
		X6S	10μF	±10%	GRM21BC81Y475KE11# D1
				±20%	GRM21BC81Y475ME11# D1

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.45mm	35Vdc	X5R	10μF	±10%	GRM21BR6YA106KE43# D1
				±20%	GRM21BR6YA106ME43# D1
		X7S	4.7μF	±10%	GRM21BC71E475KE11#
				±20%	GRM21BC71E475ME11#
		X6S	10μF	±10%	GRM21BC71E106KE11# D1
				±20%	GRM21BC71E106ME11# D1
			22μF	±20%	GRM21BC81E106KE11# D1
	16Vdc	X5R	22μF	±20%	GRM21BC81E106ME11# D1
		X7S	10μF	±10%	GRM21BC71C106KE11#
				±20%	GRM21BC71C106ME11#
		X6S	22μF	±20%	GRM21BC81C226ME44# D1
				±20%	GRM21BR61C226ME44#
	10Vdc	X5R	22μF	±20%	GRM21BR61A226ME44# D1
		X7T	22μF	±20%	GRM21BD71A226ME44# D1
				±20%	GRM21BC81A226ME44#
		X5R	22μF	±20%	GRM21BR61A226ME44# D1
				±20%	GRM21BR61A476ME15# D1
		6.3Vdc	X7T	±20%	GRM21BD70J226ME44#
				±20%	GRM21BR60J476ME15# D1
			X5R	±20%	GRM21BR60J107ME15# D1
				±20%	GRM21BB30J476ME15# D1
	4Vdc	X6S	47μF	±20%	GRM21BC80G476ME15# D1
				±20%	GRM21BC80G107ME15# D1
			X5R	±20%	GRM21BR60G476ME15#
				±20%	GRM21BB30G476ME15#
		2.5Vdc	100μF	±20%	GRM21BC80E107ME15#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	35Vdc	X5R	10μF	±10%	GRM319R6YA106KA12# D1
				±20%	GRM319R6YA106MA12# D1
		X5R	10μF	±10%	GRM319R61C106KE15#
				±20%	GRM319R61C226ME15# D1
		B	10μF	±10%	GRM319B31C106KE15#
				±20%	GRM319B31C106ME15#
			22μF	±20%	GRM319B31C226ME15# D1
	10Vdc	X5R	22μF	±20%	GRM319R61A226ME15#
		B	22μF	±20%	GRM319B31A226ME15#
				±20%	GRM319C80J226ME15#
		X5R	22μF	±20%	GRM319R60J226ME15#
				±20%	GRM319B30J226ME15#
	630Vdc	X7R	1000pF	±10%	GRM31AR72J102KW01#
			1500pF	±10%	GRM31AR72J152KW01#
			2200pF	±10%	GRM31AR72J222KW01#
			3300pF	±10%	GRM31AR72J332KW01#
			4700pF	±10%	GRM31AR72J472KW01#
			6800pF	±10%	GRM31AR72J682KW01#
			10000pF	±10%	GRM31AR72J103KW01#
		X7R	470pF	±10%	GRM31BR73A471KW01#
			680pF	±10%	GRM31BR73A681KW01#
			1000pF	±10%	GRM31BR73A102KW01#
	1.25mm	1000Vdc			

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.25mm	1000Vdc	X7R	1500pF	±10%	GRM31BR73A152KW01#
			2200pF	±10%	GRM31BR73A222KW01#
			3300pF	±10%	GRM31BR73A332KW01#
			4700pF	±10%	GRM31BR73A472KW01#
	630Vdc	X7R	6800pF	±10%	GRM31BR72J682KW01#
			22000pF	±10%	GRM31BR72H223KW10#
	500Vdc	X7R	15000pF	±10%	GRM31BR72H153KW10#
			22000pF	±10%	GRM31BR72E223KW01#
			68000pF	±10%	GRM31BR72E683KW01#
	200Vdc	X7R	15000pF	±10%	GRM31BR72D153KW01#
			22000pF	±10%	GRM31BR72D223KW01#
			68000pF	±10%	GRM31BR72D683KW01#
	50Vdc	X7R	1.0μF	±10%	GRM31MR71H105KA88#
		B	1.0μF	±10%	GRM31MB31H105KA87#
	25Vdc	X5R	10μF	±20%	GRM31MR61E106MA12#
1.8mm	1000Vdc	X7R	6800pF	±10%	GRM31CR73A682KW03#
			10000pF	±10%	GRM31CR73A103KW03#
	630Vdc	X7R	15000pF	±10%	GRM31CR72J153KW03#
			22000pF	±10%	GRM31CR72J223KW03#
	500Vdc	X7R	33000pF	±10%	GRM31CR72H333KW09#
			47000pF	±10%	GRM31CR72H473KW09#
	250Vdc	X7R	33000pF	±10%	GRM31CR72E333KW03#
			47000pF	±10%	GRM31CR72E473KW03#
			0.10μF	±10%	GRM31CR72E104KW03#
	200Vdc	X7R	33000pF	±10%	GRM31CR72D333KW03#
			47000pF	±10%	GRM31CR72D473KW03#
			0.10μF	±10%	GRM31CR72D104KW03#
	100Vdc	X7R	1.0μF	±10%	GRM31CR72A105KA01#
50Vdc	X7R	2.2μF	±10%	GRM31CR71H225KA88#	
		4.7μF	±10%	GRM31CR71H475KA12#	
			±20%	GRM31CR71H475MA12#	
	X5R	10μF	±10%	GRM31CR61H106KA12#	
			±20%	GRM31CR61H106MA12#	
	B	2.2μF	±10%	GRM31CB31H225KA87#	
			±20%	GRM31CB31H225MA87#	
		4.7μF	±10%	GRM31CB31H475KA12#	
			±20%	GRM31CB31H475MA12#	
		10μF	±10%	GRM31CB31H106KA12#	
			±20%	GRM31CB31H106MA12#	
	25Vdc	4.7μF	±10%	GRM31CR71E475KA88#	
		10μF	±10%	GRM31CR71E106KA12#	
			±20%	GRM31CR71E106MA12#	
	X5R	22μF	±20%	GRM31CR61E226ME15#	
		B	10μF	±10%	GRM31CB31E106KA75#
			22μF	±20%	GRM31CB31E226ME15#
16Vdc	X7R	4.7μF	±20%	GRM31CR71C475MA01#	
	X6S	22μF	±20%	GRM31CC81C226ME15#	
	X5R	22μF	±20%	GRM31CR61C226ME15#	
	B	22μF	±20%	GRM31CB31C226ME15#	
10Vdc	X7R	22μF	±20%	GRM31CR71A226ME15#	
	X5R	47μF	±20%	GRM31CR61A476ME15#	
	B	47μF	±20%	GRM31CB31A476ME15#	
6.3Vdc	X7R	22μF	±20%	GRM31CR70J226ME19#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.8mm	6.3Vdc	X7U	47μF	±20%	GRM31CE70J476ME15# <b>D1</b>
		X6S	47μF	±20%	GRM31CC80J476ME18#
		X5R	47μF	±20%	GRM31CR60J476ME19#
		B	47μF	±20%	GRM31CB30J476ME18#
	4Vdc	X7U	47μF	±20%	GRM31CE70G476ME15#
		X6S	47μF	±20%	GRM31CC80G476ME19#
	1.9mm	100Vdc	X7R	2.2μF	±10% <b>GRM31CR72A225KA73#</b>
				±20%	<b>GRM31CR72A225MA73#</b>
		25Vdc	X6S	22μF	±20% <b>GRM31CC81E226ME11#</b>
		16Vdc	X7S	22μF	±20% <b>GRM31CC71C226ME11#</b>
		X5R	47μF	±20%	<b>GRM31CR61C476ME44#</b>
		10Vdc	X6S	47μF	±20% <b>GRM31CC81A476ME44#</b>
	6.3Vdc	X6T	100μF	±20%	GRM31CD80J107ME39# <b>D1</b>
		X5R	100μF	±20%	GRM31CR60J107ME39# <b>D1</b>
			150μF	±20%	GRM31CR60J157ME11# <b>D1</b>
4Vdc	X7U	100μF	±20%	GRM31CE70G107ME39# <b>D1</b>	
	X6S	150μF	±20%	GRM31CC80G157ME11# <b>D1</b>	
	X6T	100μF	±20%	GRM31CD80G107ME39#	
	X5R	100μF	±20%	GRM31CR60G107ME39#	
		150μF	±20%	GRM31CR60G157ME11#	
			220μF	±20%	GRM31CR60G227ME11#
	2.5Vdc	X6S	150μF	±20%	GRM31CC80E157ME11#
		X5R	220μF	±20%	GRM31CR60E227ME11#

### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	1000Vdc	X7R	6800pF	±10%	GRM32QR73A682KW01#
			10000pF	±10%	GRM32QR73A103KW01#
	630Vdc	X7R	22000pF	±10%	GRM32QR72J223KW01#
			50000pF	±10%	GRM32QR72H683KW10#
	500Vdc	X7R	68000pF	±10%	GRM32QR72E683KW01#
			0.15μF	±10%	GRM32QR72E154KW01#
	250Vdc	X7R	68000pF	±10%	GRM32QR72D683KW01#
			0.15μF	±10%	GRM32QR72D154KW01#
	200Vdc	X7R	68000pF	±10%	GRM32QR72D683KW01#
			0.15μF	±10%	GRM32QR72D154KW01#
	1.8mm	100Vdc	1.0μF	±10%	GRM32CR72A105KA35#
				±20%	GRM32CR72A105MA35#
	2.0mm	1000Vdc	15000pF	±10%	GRM32DR73A153KW01#
			22000pF	±10%	GRM32DR73A223KW01#
		630Vdc	33000pF	±10%	GRM32DR72J333KW01#
			47000pF	±10%	GRM32DR72J473KW01#
		500Vdc	0.10μF	±10%	GRM32DR72H104KW10#
			0.10μF	±10%	GRM32DR72E104KW01#
		250Vdc	0.10μF	±10%	GRM32DR72E224KW01#
			0.22μF	±10%	GRM32DR72E224KW01#
		200Vdc	0.10μF	±10%	GRM32DR72D104KW01#
			0.22μF	±10%	GRM32DR72D224KW01#
2.2mm	100Vdc	X7S	4.7μF	±10%	GRM32DC72A475KE01#
				±20%	GRM32DC72A475ME01#
	25Vdc	X7R	10μF	±10%	GRM32DR71E106KA12#
	2.7mm	100Vdc	2.2μF	±10%	GRM32ER72A225KA35#
				±20%	GRM32ER72A225MA35#
		80Vdc	4.7μF	±10%	GRM32ER71K475KE14# <b>D1</b>
				±20%	GRM32ER71K475ME14# <b>D1</b>

Part number # indicates the package specification code.

## GRM Series High Dielectric Constant Type Part Number List

(→ 3.2×2.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.7mm	63Vdc	X7R	10μF	±10%	GRM32ER71J106KA12#	D1
				±20%	GRM32ER71J106MA12#	D1
50Vdc	X7R		4.7μF	±10%	GRM32ER71H475KA88#	
			10μF	±10%	GRM32ER71H106KA12#	
				±20%	GRM32ER71H106MA12#	
35Vdc	X7R		10μF	±10%	GRM32ER61H106KA12#	
				±20%	GRM32ER61H106MA12#	
			B	±10%	GRM32EB31H106KA12#	
25Vdc	X7R		10μF	±10%	GRM32ER7YA106KA12#	
				±20%	GRM32ER7YA106MA12#	
			X5R	±10%	GRM32ER6YA106KA12#	
16Vdc	X7R		10μF	±10%	GRM32ER6YA106MA12#	
				±20%	GRM32ER6YA106MA12#	
			B	±10%	GRM32EB3YA106KA12#	
10Vdc	X7R		22μF	±20%	GRM32ER71E226ME15#	
			X5R	±20%	GRM32ER61E226ME15#	
			B	±20%	GRM32EB31E226ME15#	
6.3Vdc	X7R		22μF	±20%	GRM32ER71C226MEA8#	
			X6S	±20%	GRM32EC81C476ME15#	D1
			X5R	±20%	GRM32ER61C476ME15#	
4Vdc	X7U		B	±20%	GRM32EB31C476ME15#	
			47μF	±20%	GRM32ER71A476ME15#	
				±20%	GRM32ER61A476ME20#	
2.0mm	1000Vdc	X7R	100μF	±20%	GRM32ER61A107ME20#	D1
				±20%	GRM32ER61A107ME20#	
			B	±20%	GRM32EB31A476ME20#	

4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.5mm	630Vdc	X7R	68000pF	±10%	GRM43QR72J683KW01#	
			500Vdc	±10%	GRM43QR72H154KW10#	
			250Vdc	±10%	GRM43QR72E154KW01#	
			200Vdc	±10%	GRM43QR72D154KW01#	
2.0mm	1000Vdc	X7R	33000pF	±10%	GRM43DR73A333KW01#	
			47000pF	±10%	GRM43DR73A473KW01#	
	630Vdc	X7R	0.10μF	±10%	GRM43DR72J104KW01#	
	500Vdc	X7R	0.22μF	±10%	GRM43DR72H224KW10#	
	250Vdc	X7R	0.22μF	±10%	GRM43DR72E224KW01#	
			0.33μF	±10%	GRM43DR72E334KW01#	
			0.47μF	±10%	GRM43DR72E474KW01#	
	200Vdc	X7R	0.22μF	±10%	GRM43DR72D224KW01#	
			0.33μF	±10%	GRM43DR72D334KW01#	
			0.47μF	±10%	GRM43DR72D474KW01#	

5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	1000Vdc	X7R	68000pF	±10%	GRM55DR73A683KW01#	
			0.10μF	±10%	GRM55DR73A104KW01#	
500Vdc	X7R		0.15μF	±10%	GRM55DR72J154KW01#	
			0.22μF	±10%	GRM55DR72J224KW01#	
			0.33μF	±10%	GRM55DR72H334KW10#	
250Vdc	X7R		0.47μF	±10%	GRM55DR72H474KW10#	
			0.68μF	±10%	GRM55DR72E334KW01#	
			1.0μF	±10%	GRM55DR72E105KW01#	
200Vdc	X7R		0.33μF	±10%	GRM55DR72D334KW01#	
			0.47μF	±10%	GRM55DR72D474KW01#	
			0.68μF	±10%	GRM55DR72D684KW01#	
			1.0μF	±10%	GRM55DR72D105KW01#	

## High Q Monolithic Ceramic Capacitor for High Frequency

### GJM Series



High  
Q

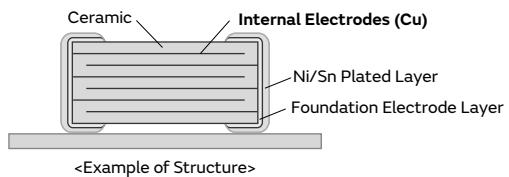
WEB

This product improves the high frequency characteristics and contributes to a reduction of power consumption by the High Q and low ESR.

#### Features

##### ① Mainly ideal for mobile communication devices and temperature compensation of related modules.

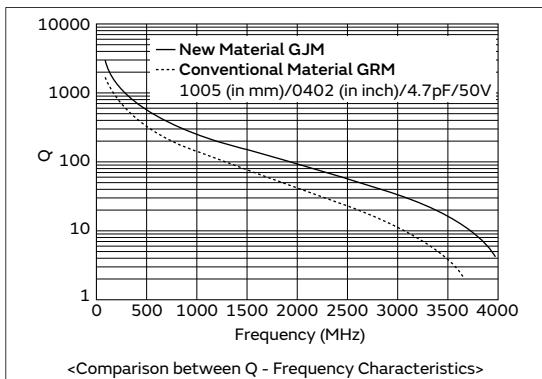
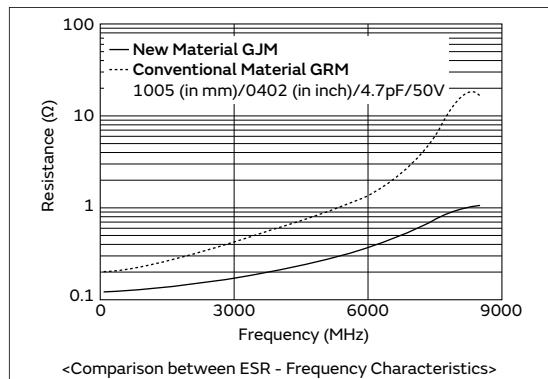
This product is ideal for temperature compensation of high frequency circuits, such as resonant circuits, tuning circuits, and impedance matching circuits where the operating characteristics of the device are greatly affected by the capacitance fluctuation.



<Example of Structure>

##### ② High Q and low ESR in VHF, UHF and microwave frequency bands.

High Q and low ESR were achieved at a high frequency by adopting ceramic material as the dielectric material which enables an extremely low loss at high frequency, and base metal electrodes as the internal electrodes.



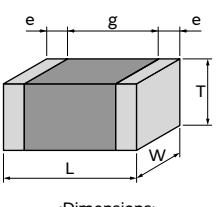
##### ③ Can be used for tight tolerance.

In addition to standard tolerance, the allowable range of this product is also suitable for the following tight tolerance.

Capacitance Range	Standard Capacitance Tolerance (Capacitance Tolerance Symbol)	Narrow Capacitance Tolerance (Capacitance Tolerance Symbol)
to 0.9pF	$\pm 0.1\text{pF}$ (B)	$\pm 0.05\text{pF}$ (W)
1.0 to 5.0pF	$\pm 0.25\text{pF}$ (C)	$\pm 0.05\text{pF}$ (W), $\pm 0.1\text{pF}$ (B)
5.1 to 9.9pF	$\pm 0.5\text{pF}$ (D)	$\pm 0.05\text{pF}$ (W), $\pm 0.1\text{pF}$ (B), $\pm 0.25\text{pF}$ (C)
10pF to	$\pm 5\%$ (J)	$\pm 2\%$ (G)

#### Specifications

Size (mm)	0.4×0.2mm to 1.0×0.5mm
Rated Voltage	6.3Vdc to 50Vdc
Capacitance	0.10pF to 47pF
Main Applications	Small communication devices, such as mobile phones and high frequency communication modules



<Dimensions>

This catalog contains only a portion of the product lineup.  
 Please refer to the capacitor search tool on the Murata Web site for details.

## GJM Series Temperature Compensating Type **High Q** Part Number List

0.4×0.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	C0G	0.20pF	±0.05pF	<b>GJM0225C1ER20WB01#</b>
				±0.1pF	<b>GJM0225C1ER20BB01#</b>
			0.30pF	±0.05pF	<b>GJM0225C1ER30WB01#</b>
				±0.1pF	<b>GJM0225C1ER30BB01#</b>
			0.40pF	±0.05pF	<b>GJM0225C1ER40WB01#</b>
				±0.1pF	<b>GJM0225C1ER40BB01#</b>
			0.50pF	±0.05pF	<b>GJM0225C1ER50WB01#</b>
				±0.1pF	<b>GJM0225C1ER50BB01#</b>
			0.60pF	±0.05pF	<b>GJM0225C1ER60WB01#</b>
				±0.1pF	<b>GJM0225C1ER60BB01#</b>
			0.70pF	±0.05pF	<b>GJM0225C1ER70WB01#</b>
				±0.1pF	<b>GJM0225C1ER70BB01#</b>
			0.80pF	±0.05pF	<b>GJM0225C1ER80WB01#</b>
				±0.1pF	<b>GJM0225C1ER80BB01#</b>
			0.90pF	±0.05pF	<b>GJM0225C1ER90WB01#</b>
				±0.1pF	<b>GJM0225C1ER90BB01#</b>
			1.0pF	±0.05pF	<b>GJM0225C1E1R0WB01#</b>
				±0.1pF	<b>GJM0225C1E1R0BB01#</b>
				±0.25pF	<b>GJM0225C1E1R0CB01#</b>
			1.1pF	±0.05pF	<b>GJM0225C1E1R1WB01#</b>
				±0.1pF	<b>GJM0225C1E1R1BB01#</b>
				±0.25pF	<b>GJM0225C1E1R1CB01#</b>
			1.2pF	±0.05pF	<b>GJM0225C1E1R2WB01#</b>
				±0.1pF	<b>GJM0225C1E1R2BB01#</b>
				±0.25pF	<b>GJM0225C1E1R2CB01#</b>
			1.3pF	±0.05pF	<b>GJM0225C1E1R3WB01#</b>
				±0.1pF	<b>GJM0225C1E1R3BB01#</b>
				±0.25pF	<b>GJM0225C1E1R3CB01#</b>
			1.4pF	±0.05pF	<b>GJM0225C1E1R4WB01#</b>
				±0.1pF	<b>GJM0225C1E1R4BB01#</b>
				±0.25pF	<b>GJM0225C1E1R4CB01#</b>
			1.5pF	±0.05pF	<b>GJM0225C1E1R5WB01#</b>
				±0.1pF	<b>GJM0225C1E1R5BB01#</b>
				±0.25pF	<b>GJM0225C1E1R5CB01#</b>
			1.6pF	±0.05pF	<b>GJM0225C1E1R6WB01#</b>
				±0.1pF	<b>GJM0225C1E1R6BB01#</b>
				±0.25pF	<b>GJM0225C1E1R6CB01#</b>
			1.7pF	±0.05pF	<b>GJM0225C1E1R7WB01#</b>
				±0.1pF	<b>GJM0225C1E1R7BB01#</b>
				±0.25pF	<b>GJM0225C1E1R7CB01#</b>
			1.8pF	±0.05pF	<b>GJM0225C1E1R8WB01#</b>
				±0.1pF	<b>GJM0225C1E1R8BB01#</b>
				±0.25pF	<b>GJM0225C1E1R8CB01#</b>
			1.9pF	±0.05pF	<b>GJM0225C1E1R9WB01#</b>
				±0.1pF	<b>GJM0225C1E1R9BB01#</b>
				±0.25pF	<b>GJM0225C1E1R9CB01#</b>
			2.0pF	±0.05pF	<b>GJM0225C1E2R0WB01#</b>
				±0.1pF	<b>GJM0225C1E2R0BB01#</b>
				±0.25pF	<b>GJM0225C1E2R0CB01#</b>
			2.1pF	±0.05pF	<b>GJM0225C1E2R1WB01#</b>
				±0.1pF	<b>GJM0225C1E2R1BB01#</b>
				±0.25pF	<b>GJM0225C1E2R1CB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	COG	2.2pF	±0.05pF	<b>GJM0225C1E2R2WB01#</b>
				±0.1pF	<b>GJM0225C1E2R2BB01#</b>
				±0.25pF	<b>GJM0225C1E2R2CB01#</b>
			2.3pF	±0.05pF	<b>GJM0225C1E2R3WB01#</b>
				±0.1pF	<b>GJM0225C1E2R3BB01#</b>
				±0.25pF	<b>GJM0225C1E2R3CB01#</b>
			2.4pF	±0.05pF	<b>GJM0225C1E2R4WB01#</b>
				±0.1pF	<b>GJM0225C1E2R4BB01#</b>
				±0.25pF	<b>GJM0225C1E2R4CB01#</b>
			2.5pF	±0.05pF	<b>GJM0225C1E2R5WB01#</b>
				±0.1pF	<b>GJM0225C1E2R5BB01#</b>
				±0.25pF	<b>GJM0225C1E2R5CB01#</b>
			2.6pF	±0.05pF	<b>GJM0225C1E2R6WB01#</b>
				±0.1pF	<b>GJM0225C1E2R6BB01#</b>
				±0.25pF	<b>GJM0225C1E2R6CB01#</b>
			2.7pF	±0.05pF	<b>GJM0225C1E2R7WB01#</b>
				±0.1pF	<b>GJM0225C1E2R7BB01#</b>
				±0.25pF	<b>GJM0225C1E2R7CB01#</b>
			2.8pF	±0.05pF	<b>GJM0225C1E2R8WB01#</b>
				±0.1pF	<b>GJM0225C1E2R8BB01#</b>
				±0.25pF	<b>GJM0225C1E2R8CB01#</b>
			2.9pF	±0.05pF	<b>GJM0225C1E2R9WB01#</b>
				±0.1pF	<b>GJM0225C1E2R9BB01#</b>
				±0.25pF	<b>GJM0225C1E2R9CB01#</b>
			3.0pF	±0.05pF	<b>GJM0225C1E3R0WB01#</b>
				±0.1pF	<b>GJM0225C1E3R0BB01#</b>
				±0.25pF	<b>GJM0225C1E3R0CB01#</b>
			3.1pF	±0.05pF	<b>GJM0225C1E3R1WB01#</b>
				±0.1pF	<b>GJM0225C1E3R1BB01#</b>
				±0.25pF	<b>GJM0225C1E3R1CB01#</b>
			3.2pF	±0.05pF	<b>GJM0225C1E3R2WB01#</b>
				±0.1pF	<b>GJM0225C1E3R2BB01#</b>
				±0.25pF	<b>GJM0225C1E3R2CB01#</b>
			3.3pF	±0.05pF	<b>GJM0225C1E3R3WB01#</b>
				±0.1pF	<b>GJM0225C1E3R3BB01#</b>
				±0.25pF	<b>GJM0225C1E3R3CB01#</b>
			3.4pF	±0.05pF	<b>GJM0225C1E3R4WB01#</b>
				±0.1pF	<b>GJM0225C1E3R4BB01#</b>
				±0.25pF	<b>GJM0225C1E3R4CB01#</b>
			3.5pF	±0.05pF	<b>GJM0225C1E3R5WB01#</b>
				±0.1pF	<b>GJM0225C1E3R5BB01#</b>
				±0.25pF	<b>GJM0225C1E3R5CB01#</b>
			3.6pF	±0.05pF	<b>GJM0225C1E3R6WB01#</b>
				±0.1pF	<b>GJM0225C1E3R6BB01#</b>
				±0.25pF	<b>GJM0225C1E3R6CB01#</b>
			3.7pF	±0.05pF	<b>GJM0225C1E3R7WB01#</b>
				±0.1pF	<b>GJM0225C1E3R7BB01#</b>
				±0.25pF	<b>GJM0225C1E3R7CB01#</b>
			3.8pF	±0.05pF	<b>GJM0225C1E3R8WB01#</b>
				±0.1pF	<b>GJM0225C1E3R8BB01#</b>
				±0.25pF	<b>GJM0225C1E3R8CB01#</b>
			3.9pF	±0.05pF	<b>GJM0225C1E3R9WB01#</b>
				±0.1pF	<b>GJM0225C1E3R9BB01#</b>
				±0.25pF	<b>GJM0225C1E3R9CB01#</b>

Part number # indicates the package specification code.

GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number		T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	COG	4.0pF	±0.05pF	GJM0225C1E4R0WB01#		0.22mm	25Vdc	COG	5.6pF	±0.1pF	GJM0225C1E5R6BB01#
				±0.1pF	GJM0225C1E4R0BB01#						±0.25pF	GJM0225C1E5R6CB01#
				±0.25pF	GJM0225C1E4R0CB01#						±0.5pF	GJM0225C1E5R6DB01#
			4.1pF	±0.05pF	GJM0225C1E4R1WB01#					5.7pF	±0.05pF	GJM0225C1E5R7WB01#
				±0.1pF	GJM0225C1E4R1BB01#						±0.1pF	GJM0225C1E5R7BB01#
				±0.25pF	GJM0225C1E4R1CB01#						±0.25pF	GJM0225C1E5R7CB01#
			4.2pF	±0.05pF	GJM0225C1E4R2WB01#					5.8pF	±0.05pF	GJM0225C1E5R7DB01#
				±0.1pF	GJM0225C1E4R2BB01#						±0.1pF	GJM0225C1E5R8WB01#
				±0.25pF	GJM0225C1E4R2CB01#						±0.25pF	GJM0225C1E5R8CB01#
			4.3pF	±0.05pF	GJM0225C1E4R3WB01#						±0.5pF	GJM0225C1E5R8DB01#
				±0.1pF	GJM0225C1E4R3BB01#						±0.5pF	GJM0225C1E5R9WB01#
				±0.25pF	GJM0225C1E4R3CB01#						±0.1pF	GJM0225C1E5R9BB01#
			4.4pF	±0.05pF	GJM0225C1E4R4WB01#					5.9pF	±0.25pF	GJM0225C1E5R9CB01#
				±0.1pF	GJM0225C1E4R4BB01#						±0.5pF	GJM0225C1E5R9DB01#
				±0.25pF	GJM0225C1E4R4CB01#						±0.5pF	GJM0225C1E6R0WB01#
			4.5pF	±0.05pF	GJM0225C1E4R5WB01#					6.0pF	±0.1pF	GJM0225C1E6R0BB01#
				±0.1pF	GJM0225C1E4R5BB01#						±0.25pF	GJM0225C1E6R0CB01#
				±0.25pF	GJM0225C1E4R5CB01#						±0.5pF	GJM0225C1E6R0DB01#
			4.6pF	±0.05pF	GJM0225C1E4R6WB01#					6.1pF	±0.05pF	GJM0225C1E6R1WB01#
				±0.1pF	GJM0225C1E4R6BB01#						±0.1pF	GJM0225C1E6R1BB01#
				±0.25pF	GJM0225C1E4R6CB01#						±0.25pF	GJM0225C1E6R1CB01#
			4.7pF	±0.05pF	GJM0225C1E4R7WB01#						±0.5pF	GJM0225C1E6R1DB01#
				±0.1pF	GJM0225C1E4R7BB01#					6.2pF	±0.05pF	GJM0225C1E6R2WB01#
				±0.25pF	GJM0225C1E4R7CB01#						±0.1pF	GJM0225C1E6R2BB01#
			4.8pF	±0.05pF	GJM0225C1E4R8WB01#						±0.25pF	GJM0225C1E6R2CB01#
				±0.1pF	GJM0225C1E4R8BB01#						±0.5pF	GJM0225C1E6R2DB01#
				±0.25pF	GJM0225C1E4R8CB01#						±0.05pF	GJM0225C1E6R3WB01#
			4.9pF	±0.05pF	GJM0225C1E4R9WB01#					6.3pF	±0.1pF	GJM0225C1E6R3BB01#
				±0.1pF	GJM0225C1E4R9BB01#						±0.25pF	GJM0225C1E6R3CB01#
				±0.25pF	GJM0225C1E4R9CB01#						±0.5pF	GJM0225C1E6R3DB01#
			5.0pF	±0.05pF	GJM0225C1E5R0WB01#					6.4pF	±0.05pF	GJM0225C1E6R4WB01#
				±0.1pF	GJM0225C1E5R0BB01#						±0.1pF	GJM0225C1E6R4BB01#
				±0.25pF	GJM0225C1E5R0CB01#						±0.25pF	GJM0225C1E6R4CB01#
			5.1pF	±0.05pF	GJM0225C1E5R1WB01#					6.5pF	±0.5pF	GJM0225C1E6R4DB01#
				±0.1pF	GJM0225C1E5R1BB01#						±0.05pF	GJM0225C1E6R5WB01#
				±0.25pF	GJM0225C1E5R1CB01#						±0.1pF	GJM0225C1E6R5BB01#
			5.2pF	±0.05pF	GJM0225C1E5R2WB01#					6.6pF	±0.25pF	GJM0225C1E6R5CB01#
				±0.1pF	GJM0225C1E5R2BB01#						±0.5pF	GJM0225C1E6R5DB01#
				±0.25pF	GJM0225C1E5R2CB01#						±0.05pF	GJM0225C1E6R6WB01#
			5.3pF	±0.05pF	GJM0225C1E5R3WB01#					6.7pF	±0.1pF	GJM0225C1E6R6BB01#
				±0.1pF	GJM0225C1E5R3BB01#						±0.25pF	GJM0225C1E6R6CB01#
				±0.25pF	GJM0225C1E5R3CB01#						±0.5pF	GJM0225C1E6R6DB01#
			5.4pF	±0.05pF	GJM0225C1E5R4WB01#					6.8pF	±0.05pF	GJM0225C1E6R7WB01#
				±0.1pF	GJM0225C1E5R4BB01#						±0.1pF	GJM0225C1E6R7BB01#
				±0.25pF	GJM0225C1E5R4CB01#						±0.25pF	GJM0225C1E6R7CB01#
			5.5pF	±0.05pF	GJM0225C1E5R5WB01#					6.9pF	±0.5pF	GJM0225C1E6R7DB01#
				±0.1pF	GJM0225C1E5R5BB01#						±0.05pF	GJM0225C1E6R8WB01#
				±0.25pF	GJM0225C1E5R5CB01#						±0.1pF	GJM0225C1E6R8BB01#
			5.6pF	±0.05pF	GJM0225C1E5R6WB01#						±0.25pF	GJM0225C1E6R8CB01#
				±0.1pF	GJM0225C1E5R6BB01#						±0.5pF	GJM0225C1E6R8DB01#
				±0.25pF	GJM0225C1E5R6CB01#						±0.05pF	GJM0225C1E6R9WB01#
			5.7pF	±0.05pF	GJM0225C1E5R7WB01#						±0.1pF	GJM0225C1E6R9BB01#
				±0.1pF	GJM0225C1E5R7BB01#						±0.25pF	GJM0225C1E6R9CB01#
				±0.25pF	GJM0225C1E5R7CB01#						±0.5pF	GJM0225C1E6R9DB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	COG	6.9pF	±0.5pF	GJM0225C1E6R9DB01#	0.22mm	25Vdc	COG	8.3pF	±0.1pF	GJM0225C1E8R3WB01#
			7.0pF	±0.05pF	GJM0225C1E7R0WB01#				±0.25pF	GJM0225C1E8R3CB01#	
				±0.1pF	GJM0225C1E7R0BB01#				±0.5pF	GJM0225C1E8R3DB01#	
				±0.25pF	GJM0225C1E7R0CB01#				±0.05pF	GJM0225C1E8R4WB01#	
				±0.5pF	GJM0225C1E7R0DB01#				±0.1pF	GJM0225C1E8R4BB01#	
			7.1pF	±0.05pF	GJM0225C1E7R1WB01#				±0.25pF	GJM0225C1E8R4CB01#	
				±0.1pF	GJM0225C1E7R1BB01#				±0.5pF	GJM0225C1E8R4DB01#	
				±0.25pF	GJM0225C1E7R1CB01#				±0.05pF	GJM0225C1E8R5WB01#	
				±0.5pF	GJM0225C1E7R1DB01#				±0.1pF	GJM0225C1E8R5BB01#	
			7.2pF	±0.05pF	GJM0225C1E7R2WB01#				±0.25pF	GJM0225C1E8R5CB01#	
				±0.1pF	GJM0225C1E7R2BB01#				±0.5pF	GJM0225C1E8R5DB01#	
				±0.25pF	GJM0225C1E7R2CB01#				±0.05pF	GJM0225C1E8R6WB01#	
				±0.5pF	GJM0225C1E7R2DB01#				±0.1pF	GJM0225C1E8R6BB01#	
			7.3pF	±0.05pF	GJM0225C1E7R3WB01#				±0.25pF	GJM0225C1E8R6CB01#	
				±0.1pF	GJM0225C1E7R3BB01#				±0.5pF	GJM0225C1E8R6DB01#	
				±0.25pF	GJM0225C1E7R3CB01#				±0.05pF	GJM0225C1E8R7WB01#	
				±0.5pF	GJM0225C1E7R3DB01#				±0.1pF	GJM0225C1E8R7BB01#	
			7.4pF	±0.05pF	GJM0225C1E7R4WB01#				±0.25pF	GJM0225C1E8R7CB01#	
				±0.1pF	GJM0225C1E7R4BB01#				±0.5pF	GJM0225C1E8R7DB01#	
				±0.25pF	GJM0225C1E7R4CB01#				±0.05pF	GJM0225C1E8R8WB01#	
				±0.5pF	GJM0225C1E7R4DB01#				±0.1pF	GJM0225C1E8R8BB01#	
			7.5pF	±0.05pF	GJM0225C1E7R5WB01#				±0.25pF	GJM0225C1E8R8CB01#	
				±0.1pF	GJM0225C1E7R5BB01#				±0.5pF	GJM0225C1E8R8DB01#	
				±0.25pF	GJM0225C1E7R5CB01#				±0.05pF	GJM0225C1E8R9WB01#	
				±0.5pF	GJM0225C1E7R5DB01#				±0.1pF	GJM0225C1E8R9BB01#	
			7.6pF	±0.05pF	GJM0225C1E7R6WB01#				±0.25pF	GJM0225C1E8R9CB01#	
				±0.1pF	GJM0225C1E7R6BB01#				±0.5pF	GJM0225C1E8R9DB01#	
				±0.25pF	GJM0225C1E7R6CB01#				±0.05pF	GJM0225C1E9R0WB01#	
				±0.5pF	GJM0225C1E7R6DB01#				±0.1pF	GJM0225C1E9R0BB01#	
			7.7pF	±0.05pF	GJM0225C1E7R7WB01#				±0.25pF	GJM0225C1E9R0CB01#	
				±0.1pF	GJM0225C1E7R7BB01#				±0.5pF	GJM0225C1E9R0DB01#	
				±0.25pF	GJM0225C1E7R7CB01#				±0.05pF	GJM0225C1E9R1WB01#	
				±0.5pF	GJM0225C1E7R7DB01#				±0.1pF	GJM0225C1E9R1BB01#	
			7.8pF	±0.05pF	GJM0225C1E7R8WB01#				±0.25pF	GJM0225C1E9R1CB01#	
				±0.1pF	GJM0225C1E7R8BB01#				±0.5pF	GJM0225C1E9R1DB01#	
				±0.25pF	GJM0225C1E7R8CB01#				±0.05pF	GJM0225C1E9R2WB01#	
				±0.5pF	GJM0225C1E7R8DB01#				±0.1pF	GJM0225C1E9R2BB01#	
			7.9pF	±0.05pF	GJM0225C1E7R9WB01#				±0.25pF	GJM0225C1E9R2CB01#	
				±0.1pF	GJM0225C1E7R9BB01#				±0.5pF	GJM0225C1E9R2DB01#	
				±0.25pF	GJM0225C1E7R9CB01#				±0.05pF	GJM0225C1E9R3WB01#	
				±0.5pF	GJM0225C1E7R9DB01#				±0.1pF	GJM0225C1E9R3BB01#	
			8.0pF	±0.05pF	GJM0225C1E8R0WB01#				±0.25pF	GJM0225C1E9R3CB01#	
				±0.1pF	GJM0225C1E8R0BB01#				±0.5pF	GJM0225C1E9R3DB01#	
				±0.25pF	GJM0225C1E8R0CB01#				±0.05pF	GJM0225C1E9R4WB01#	
				±0.5pF	GJM0225C1E8R0DB01#				±0.1pF	GJM0225C1E9R4BB01#	
			8.1pF	±0.05pF	GJM0225C1E8R1WB01#				±0.25pF	GJM0225C1E9R4CB01#	
				±0.1pF	GJM0225C1E8R1BB01#				±0.5pF	GJM0225C1E9R4DB01#	
				±0.25pF	GJM0225C1E8R1CB01#				±0.05pF	GJM0225C1E9R5WB01#	
				±0.5pF	GJM0225C1E8R1DB01#				±0.1pF	GJM0225C1E9R5BB01#	
			8.2pF	±0.05pF	GJM0225C1E8R2WB01#				±0.25pF	GJM0225C1E9R5CB01#	
				±0.1pF	GJM0225C1E8R2BB01#				±0.5pF	GJM0225C1E9R5DB01#	
				±0.25pF	GJM0225C1E8R2CB01#				±0.05pF	GJM0225C1E9R6WB01#	
				±0.5pF	GJM0225C1E8R2DB01#				±0.1pF	GJM0225C1E9R6BB01#	
			8.3pF	±0.05pF	GJM0225C1E8R3WB01#				±0.25pF	GJM0225C1E9R6CB01#	

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	COG	9.6pF	±0.5pF	GJM0225C1E9R6DB01#	0.22mm	25Vdc	CK	1.2pF	±0.1pF	GJM0224C1E1R2BB01#
				±0.05pF	GJM0225C1E9R7WB01#					±0.25pF	GJM0224C1E1R2CB01#
				±0.1pF	GJM0225C1E9R7BB01#					±0.05pF	GJM0224C1E1R3WB01#
				±0.25pF	GJM0225C1E9R7CB01#					±0.1pF	GJM0224C1E1R3BB01#
				±0.5pF	GJM0225C1E9R7DB01#					±0.25pF	GJM0224C1E1R3CB01#
			9.7pF	±0.05pF	GJM0225C1E9R8WB01#				1.3pF	±0.05pF	GJM0224C1E1R4WB01#
				±0.1pF	GJM0225C1E9R8BB01#					±0.1pF	GJM0224C1E1R4BB01#
				±0.25pF	GJM0225C1E9R8CB01#					±0.25pF	GJM0224C1E1R4CB01#
				±0.5pF	GJM0225C1E9R8DB01#					±0.05pF	GJM0224C1E1R5WB01#
			9.8pF	±0.05pF	GJM0225C1E9R9WB01#				1.4pF	±0.1pF	GJM0224C1E1R5BB01#
				±0.1pF	GJM0225C1E9R9BB01#					±0.25pF	GJM0224C1E1R5CB01#
				±0.25pF	GJM0225C1E9R9CB01#					±0.05pF	GJM0224C1E1R4WB01#
				±0.5pF	GJM0225C1E9R9DB01#					±0.1pF	GJM0224C1E1R4BB01#
			9.9pF	±0.05pF	GJM0225C1E9R9WB01#				1.5pF	±0.25pF	GJM0224C1E1R5CB01#
				±0.1pF	GJM0225C1E9R9BB01#					±0.05pF	GJM0224C1E1R5WB01#
				±0.25pF	GJM0225C1E9R9CB01#					±0.1pF	GJM0224C1E1R5BB01#
				±0.5pF	GJM0225C1E9R9DB01#					±0.25pF	GJM0224C1E1R5CB01#
			10pF	±2%	GJM0225C1E100GB01#				1.6pF	±0.05pF	GJM0224C1E1R6WB01#
				±5%	GJM0225C1E100JB01#					±0.1pF	GJM0224C1E1R6BB01#
			11pF	±2%	GJM0225C1E110GB01#					±0.25pF	GJM0224C1E1R6CB01#
				±5%	GJM0225C1E110JB01#					±0.05pF	GJM0224C1E1R7WB01#
			12pF	±2%	GJM0225C1E120GB01#				1.7pF	±0.1pF	GJM0224C1E1R7BB01#
				±5%	GJM0225C1E120JB01#					±0.25pF	GJM0224C1E1R7CB01#
			13pF	±2%	GJM0225C1E130GB01#				1.8pF	±0.05pF	GJM0224C1E1R8WB01#
				±5%	GJM0225C1E130JB01#					±0.1pF	GJM0224C1E1R8BB01#
			15pF	±2%	GJM0225C1E150GB01#				1.9pF	±0.25pF	GJM0224C1E1R9CB01#
				±5%	GJM0225C1E150JB01#					±0.05pF	GJM0224C1E1R9WB01#
			16pF	±2%	GJM0225C1E160GB01#				2.0pF	±0.1pF	GJM0224C1E2R0BB01#
				±5%	GJM0225C1E160JB01#					±0.25pF	GJM0224C1E2R0CB01#
			18pF	±2%	GJM0225C1E180GB01#				CJ	±0.05pF	GJM0223C1E2R1WB01#
				±5%	GJM0225C1E180JB01#					±0.1pF	GJM0223C1E2R1BB01#
			20pF	±2%	GJM0225C1E200GB01#				2.1pF	±0.25pF	GJM0223C1E2R1CB01#
				±5%	GJM0225C1E200JB01#					±0.05pF	GJM0223C1E2R2WB01#
			22pF	±2%	GJM0225C1E220GB01#				2.2pF	±0.1pF	GJM0223C1E2R2BB01#
				±5%	GJM0225C1E220JB01#					±0.25pF	GJM0223C1E2R2CB01#
		CK	0.20pF	±0.05pF	GJM0224C1ER20WB01#				2.3pF	±0.05pF	GJM0223C1E2R3WB01#
				±0.1pF	GJM0224C1ER20BB01#					±0.1pF	GJM0223C1E2R3BB01#
			0.30pF	±0.05pF	GJM0224C1ER30WB01#				2.4pF	±0.25pF	GJM0223C1E2R3CB01#
				±0.1pF	GJM0224C1ER30BB01#					±0.05pF	GJM0223C1E2R4WB01#
			0.40pF	±0.05pF	GJM0224C1ER40WB01#				2.5pF	±0.1pF	GJM0223C1E2R4BB01#
				±0.1pF	GJM0224C1ER40BB01#					±0.25pF	GJM0223C1E2R4CB01#
			0.50pF	±0.05pF	GJM0224C1ER50WB01#				2.6pF	±0.05pF	GJM0223C1E2R5WB01#
				±0.1pF	GJM0224C1ER50BB01#					±0.1pF	GJM0223C1E2R5BB01#
			0.60pF	±0.05pF	GJM0224C1ER60WB01#				2.7pF	±0.25pF	GJM0223C1E2R5CB01#
				±0.1pF	GJM0224C1ER60BB01#					±0.05pF	GJM0223C1E2R7WB01#
			0.70pF	±0.05pF	GJM0224C1ER70WB01#				2.8pF	±0.1pF	GJM0223C1E2R7BB01#
				±0.1pF	GJM0224C1ER70BB01#					±0.25pF	GJM0223C1E2R7CB01#
			0.80pF	±0.05pF	GJM0224C1ER80WB01#				2.9pF	±0.05pF	GJM0223C1E2R8WB01#
				±0.1pF	GJM0224C1ER80BB01#					±0.1pF	GJM0223C1E2R8BB01#
			0.90pF	±0.05pF	GJM0224C1ER90WB01#				3.0pF	±0.25pF	GJM0223C1E2R9CB01#
				±0.1pF	GJM0224C1ER90BB01#					±0.05pF	GJM0223C1E3ROWB01#
			1.0pF	±0.05pF	GJM0224C1ER10WB01#					±0.1pF	GJM0223C1E2R9BB01#
				±0.1pF	GJM0224C1ER10BB01#					±0.25pF	GJM0223C1E2R9CB01#
			1.1pF	±0.05pF	GJM0224C1ER11WB01#				3.0pF	±0.05pF	GJM0223C1E2R9WB01#
				±0.1pF	GJM0224C1ER11BB01#					±0.1pF	GJM0223C1E2R9BB01#
			1.2pF	±0.05pF	GJM0224C1ER12WB01#					±0.25pF	GJM0223C1E2R9CB01#
				±0.1pF	GJM0224C1ER12BB01#					±0.05pF	GJM0223C1E3ROWB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	CJ	3.0pF	±0.1pF	GJM0223C1E3R0BB01#
				±0.25pF	GJM0223C1E3R0CB01#
			3.1pF	±0.05pF	GJM0223C1E3R1WB01#
				±0.1pF	GJM0223C1E3R1BB01#
				±0.25pF	GJM0223C1E3R1CB01#
			3.2pF	±0.05pF	GJM0223C1E3R2WB01#
				±0.1pF	GJM0223C1E3R2BB01#
				±0.25pF	GJM0223C1E3R2CB01#
			3.3pF	±0.05pF	GJM0223C1E3R3WB01#
				±0.1pF	GJM0223C1E3R3BB01#
				±0.25pF	GJM0223C1E3R3CB01#
			3.4pF	±0.05pF	GJM0223C1E3R4WB01#
				±0.1pF	GJM0223C1E3R4BB01#
				±0.25pF	GJM0223C1E3R4CB01#
			3.5pF	±0.05pF	GJM0223C1E3R5WB01#
				±0.1pF	GJM0223C1E3R5BB01#
				±0.25pF	GJM0223C1E3R5CB01#
			3.6pF	±0.05pF	GJM0223C1E3R6WB01#
				±0.1pF	GJM0223C1E3R6BB01#
				±0.25pF	GJM0223C1E3R6CB01#
			3.7pF	±0.05pF	GJM0223C1E3R7WB01#
				±0.1pF	GJM0223C1E3R7BB01#
				±0.25pF	GJM0223C1E3R7CB01#
			3.8pF	±0.05pF	GJM0223C1E3R8WB01#
				±0.1pF	GJM0223C1E3R8BB01#
				±0.25pF	GJM0223C1E3R8CB01#
			3.9pF	±0.05pF	GJM0223C1E3R9WB01#
				±0.1pF	GJM0223C1E3R9BB01#
				±0.25pF	GJM0223C1E3R9CB01#
CH	4.0pF	4.0pF	±0.05pF	GJM0222C1E4R0WB01#	
			±0.1pF	GJM0222C1E4R0BB01#	
			±0.25pF	GJM0222C1E4R0CB01#	
		4.1pF	±0.05pF	GJM0222C1E4R1WB01#	
			±0.1pF	GJM0222C1E4R1BB01#	
			±0.25pF	GJM0222C1E4R1CB01#	
		4.2pF	±0.05pF	GJM0222C1E4R2WB01#	
			±0.1pF	GJM0222C1E4R2BB01#	
			±0.25pF	GJM0222C1E4R2CB01#	
		4.3pF	±0.05pF	GJM0222C1E4R3WB01#	
			±0.1pF	GJM0222C1E4R3BB01#	
			±0.25pF	GJM0222C1E4R3CB01#	
		4.4pF	±0.05pF	GJM0222C1E4R4WB01#	
			±0.1pF	GJM0222C1E4R4BB01#	
			±0.25pF	GJM0222C1E4R4CB01#	
		4.5pF	±0.05pF	GJM0222C1E4R5WB01#	
			±0.1pF	GJM0222C1E4R5BB01#	
			±0.25pF	GJM0222C1E4R5CB01#	
		4.6pF	±0.05pF	GJM0222C1E4R6WB01#	
			±0.1pF	GJM0222C1E4R6BB01#	
			±0.25pF	GJM0222C1E4R6CB01#	
		4.7pF	±0.05pF	GJM0222C1E4R7WB01#	
			±0.1pF	GJM0222C1E4R7BB01#	
			±0.25pF	GJM0222C1E4R7CB01#	
		4.8pF	±0.05pF	GJM0222C1E4R8WB01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	CH	4.8pF	±0.1pF	GJM0222C1E4R8BB01#
				±0.25pF	GJM0222C1E4R8CB01#
			4.9pF	±0.05pF	GJM0222C1E4R9WB01#
				±0.1pF	GJM0222C1E4R9BB01#
				±0.25pF	GJM0222C1E4R9CB01#
			5.0pF	±0.05pF	GJM0222C1E5R0WB01#
				±0.1pF	GJM0222C1E5R0BB01#
				±0.25pF	GJM0222C1E5R0CB01#
			5.1pF	±0.05pF	GJM0222C1E5R1WB01#
				±0.1pF	GJM0222C1E5R1BB01#
				±0.25pF	GJM0222C1E5R1CB01#
			5.2pF	±0.05pF	GJM0222C1E5R1DB01#
				±0.1pF	GJM0222C1E5R2WB01#
				±0.25pF	GJM0222C1E5R2BB01#
			5.3pF	±0.05pF	GJM0222C1E5R3WB01#
				±0.1pF	GJM0222C1E5R3BB01#
				±0.25pF	GJM0222C1E5R3CB01#
			5.4pF	±0.05pF	GJM0222C1E5R4WB01#
				±0.1pF	GJM0222C1E5R4BB01#
				±0.25pF	GJM0222C1E5R4CB01#
			5.5pF	±0.05pF	GJM0222C1E5R5WB01#
				±0.1pF	GJM0222C1E5R5BB01#
				±0.25pF	GJM0222C1E5R5CB01#
			5.6pF	±0.05pF	GJM0222C1E5R6WB01#
				±0.1pF	GJM0222C1E5R6BB01#
				±0.25pF	GJM0222C1E5R6CB01#
			5.7pF	±0.05pF	GJM0222C1E5R7WB01#
				±0.1pF	GJM0222C1E5R7BB01#
				±0.25pF	GJM0222C1E5R7CB01#
			5.8pF	±0.05pF	GJM0222C1E5R8WB01#
				±0.1pF	GJM0222C1E5R8BB01#
				±0.25pF	GJM0222C1E5R8CB01#
			5.9pF	±0.05pF	GJM0222C1E5R9WB01#
				±0.1pF	GJM0222C1E5R9BB01#
				±0.25pF	GJM0222C1E5R9CB01#
			6.0pF	±0.05pF	GJM0222C1E6R0WB01#
				±0.1pF	GJM0222C1E6R0BB01#
				±0.25pF	GJM0222C1E6R0CB01#
			6.1pF	±0.05pF	GJM0222C1E6R1WB01#
				±0.1pF	GJM0222C1E6R1BB01#
				±0.25pF	GJM0222C1E6R1CB01#
			6.2pF	±0.05pF	GJM0222C1E6R2WB01#
				±0.1pF	GJM0222C1E6R2BB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	CH	6.2pF	±0.25pF	GJM0222C1E6R2CB01#	0.22mm	25Vdc	CH	7.6pF	±0.05pF	GJM0222C1E7R6WB01#
				±0.5pF	GJM0222C1E6R2DB01#					±0.1pF	GJM0222C1E7R6BB01#
			6.3pF	±0.05pF	GJM0222C1E6R3WB01#					±0.25pF	GJM0222C1E7R6CB01#
				±0.1pF	GJM0222C1E6R3BB01#					±0.5pF	GJM0222C1E7R6DB01#
				±0.25pF	GJM0222C1E6R3CB01#					±0.05pF	GJM0222C1E7R7WB01#
				±0.5pF	GJM0222C1E6R3DB01#					±0.1pF	GJM0222C1E7R7BB01#
			6.4pF	±0.05pF	GJM0222C1E6R4WB01#					±0.25pF	GJM0222C1E7R7CB01#
				±0.1pF	GJM0222C1E6R4BB01#					±0.5pF	GJM0222C1E7R7DB01#
				±0.25pF	GJM0222C1E6R4CB01#					±0.05pF	GJM0222C1E7R8WB01#
				±0.5pF	GJM0222C1E6R4DB01#					±0.1pF	GJM0222C1E7R8BB01#
			6.5pF	±0.05pF	GJM0222C1E6R5WB01#					±0.25pF	GJM0222C1E7R8CB01#
				±0.1pF	GJM0222C1E6R5BB01#					±0.5pF	GJM0222C1E7R8DB01#
				±0.25pF	GJM0222C1E6R5CB01#					±0.05pF	GJM0222C1E7R9WB01#
				±0.5pF	GJM0222C1E6R5DB01#					±0.1pF	GJM0222C1E7R9BB01#
			6.6pF	±0.05pF	GJM0222C1E6R6WB01#					±0.25pF	GJM0222C1E7R9CB01#
				±0.1pF	GJM0222C1E6R6BB01#					±0.5pF	GJM0222C1E7R9DB01#
				±0.25pF	GJM0222C1E6R6CB01#					±0.05pF	GJM0222C1E8R0WB01#
				±0.5pF	GJM0222C1E6R6DB01#					±0.1pF	GJM0222C1E8R0BB01#
			6.7pF	±0.05pF	GJM0222C1E6R7WB01#					±0.25pF	GJM0222C1E8R0CB01#
				±0.1pF	GJM0222C1E6R7BB01#					±0.5pF	GJM0222C1E8R0DB01#
				±0.25pF	GJM0222C1E6R7CB01#					±0.05pF	GJM0222C1E8R1WB01#
				±0.5pF	GJM0222C1E6R7DB01#					±0.1pF	GJM0222C1E8R1BB01#
			6.8pF	±0.05pF	GJM0222C1E6R8WB01#					±0.25pF	GJM0222C1E8R1CB01#
				±0.1pF	GJM0222C1E6R8BB01#					±0.5pF	GJM0222C1E8R1DB01#
				±0.25pF	GJM0222C1E6R8CB01#					±0.05pF	GJM0222C1E8R2WB01#
				±0.5pF	GJM0222C1E6R8DB01#					±0.1pF	GJM0222C1E8R2BB01#
			6.9pF	±0.05pF	GJM0222C1E6R9WB01#					±0.25pF	GJM0222C1E8R2CB01#
				±0.1pF	GJM0222C1E6R9BB01#					±0.5pF	GJM0222C1E8R2DB01#
				±0.25pF	GJM0222C1E6R9CB01#					±0.05pF	GJM0222C1E8R3WB01#
				±0.5pF	GJM0222C1E6R9DB01#					±0.1pF	GJM0222C1E8R3BB01#
			7.0pF	±0.05pF	GJM0222C1E7R0WB01#					±0.25pF	GJM0222C1E8R3CB01#
				±0.1pF	GJM0222C1E7R0BB01#					±0.5pF	GJM0222C1E8R3DB01#
				±0.25pF	GJM0222C1E7R0CB01#					±0.05pF	GJM0222C1E8R4WB01#
				±0.5pF	GJM0222C1E7R0DB01#					±0.1pF	GJM0222C1E8R4BB01#
			7.1pF	±0.05pF	GJM0222C1E7R1WB01#					±0.25pF	GJM0222C1E8R4CB01#
				±0.1pF	GJM0222C1E7R1BB01#					±0.5pF	GJM0222C1E8R4DB01#
				±0.25pF	GJM0222C1E7R1CB01#					±0.05pF	GJM0222C1E8R5WB01#
				±0.5pF	GJM0222C1E7R1DB01#					±0.1pF	GJM0222C1E8R5BB01#
			7.2pF	±0.05pF	GJM0222C1E7R2WB01#					±0.25pF	GJM0222C1E8R5CB01#
				±0.1pF	GJM0222C1E7R2BB01#					±0.5pF	GJM0222C1E8R5DB01#
				±0.25pF	GJM0222C1E7R2CB01#					±0.05pF	GJM0222C1E8R6WB01#
				±0.5pF	GJM0222C1E7R2DB01#					±0.1pF	GJM0222C1E8R6BB01#
			7.3pF	±0.05pF	GJM0222C1E7R3WB01#					±0.25pF	GJM0222C1E8R6CB01#
				±0.1pF	GJM0222C1E7R3BB01#					±0.5pF	GJM0222C1E8R6DB01#
				±0.25pF	GJM0222C1E7R3CB01#					±0.05pF	GJM0222C1E8R7WB01#
				±0.5pF	GJM0222C1E7R3DB01#					±0.1pF	GJM0222C1E8R7BB01#
			7.4pF	±0.05pF	GJM0222C1E7R4WB01#					±0.25pF	GJM0222C1E8R7CB01#
				±0.1pF	GJM0222C1E7R4BB01#					±0.5pF	GJM0222C1E8R7DB01#
				±0.25pF	GJM0222C1E7R4CB01#					±0.05pF	GJM0222C1E8R8WB01#
				±0.5pF	GJM0222C1E7R4DB01#					±0.1pF	GJM0222C1E8R8BB01#
			7.5pF	±0.05pF	GJM0222C1E7R5WB01#					±0.25pF	GJM0222C1E8R8CB01#
				±0.1pF	GJM0222C1E7R5BB01#					±0.5pF	GJM0222C1E8R8DB01#
				±0.25pF	GJM0222C1E7R5CB01#					±0.05pF	GJM0222C1E8R9WB01#
				±0.5pF	GJM0222C1E7R5DB01#					±0.1pF	GJM0222C1E8R9BB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.4×0.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	CH	8.9pF	±0.25pF	GJM0222C1E8R9CB01#
				±0.5pF	GJM0222C1E8R9DB01#
			9.0pF	±0.05pF	GJM0222C1E9R0WB01#
				±0.1pF	GJM0222C1E9R0BB01#
				±0.25pF	GJM0222C1E9R0CB01#
				±0.5pF	GJM0222C1E9R0DB01#
			9.1pF	±0.05pF	GJM0222C1E9R1WB01#
				±0.1pF	GJM0222C1E9R1BB01#
				±0.25pF	GJM0222C1E9R1CB01#
				±0.5pF	GJM0222C1E9R1DB01#
			9.2pF	±0.05pF	GJM0222C1E9R2WB01#
				±0.1pF	GJM0222C1E9R2BB01#
				±0.25pF	GJM0222C1E9R2CB01#
				±0.5pF	GJM0222C1E9R2DB01#
			9.3pF	±0.05pF	GJM0222C1E9R3WB01#
				±0.1pF	GJM0222C1E9R3BB01#
				±0.25pF	GJM0222C1E9R3CB01#
				±0.5pF	GJM0222C1E9R3DB01#
			9.4pF	±0.05pF	GJM0222C1E9R4WB01#
				±0.1pF	GJM0222C1E9R4BB01#
				±0.25pF	GJM0222C1E9R4CB01#
				±0.5pF	GJM0222C1E9R4DB01#
			9.5pF	±0.05pF	GJM0222C1E9R5WB01#
				±0.1pF	GJM0222C1E9R5BB01#
				±0.25pF	GJM0222C1E9R5CB01#
				±0.5pF	GJM0222C1E9R5DB01#
			9.6pF	±0.05pF	GJM0222C1E9R6WB01#
				±0.1pF	GJM0222C1E9R6BB01#
				±0.25pF	GJM0222C1E9R6CB01#
				±0.5pF	GJM0222C1E9R6DB01#
			9.7pF	±0.05pF	GJM0222C1E9R7WB01#
				±0.1pF	GJM0222C1E9R7BB01#
				±0.25pF	GJM0222C1E9R7CB01#
				±0.5pF	GJM0222C1E9R7DB01#
			9.8pF	±0.05pF	GJM0222C1E9R8WB01#
				±0.1pF	GJM0222C1E9R8BB01#
				±0.25pF	GJM0222C1E9R8CB01#
				±0.5pF	GJM0222C1E9R8DB01#
			9.9pF	±0.05pF	GJM0222C1E9R9WB01#
				±0.1pF	GJM0222C1E9R9BB01#
				±0.25pF	GJM0222C1E9R9CB01#
				±0.5pF	GJM0222C1E9R9DB01#
			10pF	±2%	GJM0222C1E100GB01#
				±5%	GJM0222C1E100JB01#
			11pF	±2%	GJM0222C1E110GB01#
				±5%	GJM0222C1E110JB01#
			12pF	±2%	GJM0222C1E120GB01#
				±5%	GJM0222C1E120JB01#
			13pF	±2%	GJM0222C1E130GB01#
				±5%	GJM0222C1E130JB01#
			15pF	±2%	GJM0222C1E150GB01#
				±5%	GJM0222C1E150JB01#
			16pF	±2%	GJM0222C1E160GB01#
				±5%	GJM0222C1E160JB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.22mm	25Vdc	CH	18pF	±2%	GJM0222C1E180GB01#
				±5%	GJM0222C1E180JB01#
			20pF	±2%	GJM0222C1E200GB01#
				±5%	GJM0222C1E200JB01#
			22pF	±2%	GJM0222C1E220GB01#
				±5%	GJM0222C1E220JB01#

0.6×0.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	50Vdc	COG	0.20pF	±0.05pF	GJM0335C1HR20WB01#
				±0.1pF	GJM0335C1HR20BB01#
			0.30pF	±0.05pF	GJM0335C1HR30WB01#
				±0.1pF	GJM0335C1HR30BB01#
			0.40pF	±0.05pF	GJM0335C1HR40WB01#
				±0.1pF	GJM0335C1HR40BB01#
			0.50pF	±0.05pF	GJM0335C1HR50WB01#
				±0.1pF	GJM0335C1HR50BB01#
			0.60pF	±0.05pF	GJM0335C1HR60WB01#
				±0.1pF	GJM0335C1HR60BB01#
			0.70pF	±0.05pF	GJM0335C1HR70WB01#
				±0.1pF	GJM0335C1HR70BB01#
			0.80pF	±0.05pF	GJM0335C1HR80WB01#
				±0.1pF	GJM0335C1HR80BB01#
			0.90pF	±0.05pF	GJM0335C1HR90WB01#
				±0.1pF	GJM0335C1HR90BB01#
		CK	0.20pF	±0.05pF	GJM0334C1HR20WB01#
			0.30pF	±0.05pF	GJM0334C1HR30WB01#
			0.40pF	±0.05pF	GJM0334C1HR40WB01#
			0.50pF	±0.05pF	GJM0334C1HR50WB01#
			0.60pF	±0.05pF	GJM0334C1HR60WB01#
			0.70pF	±0.05pF	GJM0334C1HR70WB01#
			0.80pF	±0.05pF	GJM0334C1HR80WB01#
			0.90pF	±0.05pF	GJM0334C1HR90WB01#
			1.0pF	±0.1pF	GJM0334C1H1R0BB01#
			1.1pF	±0.1pF	GJM0334C1H1R1BB01#
			1.2pF	±0.1pF	GJM0334C1H1R2BB01#
			1.3pF	±0.1pF	GJM0334C1H1R3BB01#
			1.5pF	±0.1pF	GJM0334C1H1R5BB01#
			1.6pF	±0.1pF	GJM0334C1H1R6BB01#
			1.8pF	±0.1pF	GJM0334C1H1R8BB01#
			2.0pF	±0.1pF	GJM0334C1H2R0BB01#
		CJ	2.2pF	±0.1pF	GJM0333C1H2R2BB01#
			2.4pF	±0.1pF	GJM0333C1H2R4BB01#
			2.7pF	±0.1pF	GJM0333C1H2R7BB01#
			3.0pF	±0.1pF	GJM0333C1H3R0BB01#
			3.3pF	±0.1pF	GJM0333C1H3R3BB01#
			3.6pF	±0.1pF	GJM0333C1H3R6BB01#
			3.9pF	±0.1pF	GJM0333C1H3R9BB01#
		CH	0.20pF	±0.05pF	GJM0332C1HR20WB01#
				±0.1pF	GJM0332C1HR20BB01#
			0.30pF	±0.05pF	GJM0332C1HR30WB01#
				±0.1pF	GJM0332C1HR30BB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	50Vdc	CH	0.40pF	±0.05pF	GJM0332C1HR40WB01#	D1	0.33mm	25Vdc	COG	2.4pF	±0.05pF	GJM0335C1E2R4WB01#
				±0.1pF	GJM0332C1HR40BB01#	D1				±0.1pF	GJM0335C1E2R4BB01#	
			0.50pF	±0.05pF	GJM0332C1HR50WB01#	D1				±0.25pF	GJM0335C1E2R4CB01#	
				±0.1pF	GJM0332C1HR50BB01#	D1				±0.05pF	GJM0335C1E2R5WB01#	
			0.60pF	±0.05pF	GJM0332C1HR60WB01#	D1				±0.1pF	GJM0335C1E2R5BB01#	
				±0.1pF	GJM0332C1HR60BB01#	D1				±0.25pF	GJM0335C1E2R5CB01#	
			0.70pF	±0.05pF	GJM0332C1HR70WB01#	D1				±0.05pF	GJM0335C1E2R6WB01#	
				±0.1pF	GJM0332C1HR70BB01#	D1				±0.1pF	GJM0335C1E2R6BB01#	
			0.80pF	±0.05pF	GJM0332C1HR80WB01#	D1				±0.25pF	GJM0335C1E2R6CB01#	
				±0.1pF	GJM0332C1HR80BB01#	D1				±0.05pF	GJM0335C1E2R7WB01#	
			0.90pF	±0.05pF	GJM0332C1HR90WB01#	D1				±0.1pF	GJM0335C1E2R7BB01#	
				±0.1pF	GJM0332C1HR90BB01#	D1				±0.25pF	GJM0335C1E2R7CB01#	
25Vdc	COG	1.0pF	±0.05pF	GJM0335C1E1R0WB01#						±0.05pF	GJM0335C1E2R8WB01#	
				±0.1pF	GJM0335C1E1R0BB01#					±0.1pF	GJM0335C1E2R8BB01#	
				±0.25pF	GJM0335C1E1R0CB01#					±0.25pF	GJM0335C1E2R8CB01#	
		1.1pF	±0.05pF	GJM0335C1E1R1WB01#						±0.05pF	GJM0335C1E2R9WB01#	
				±0.1pF	GJM0335C1E1R1BB01#					±0.1pF	GJM0335C1E2R9BB01#	
				±0.25pF	GJM0335C1E1R1CB01#					±0.25pF	GJM0335C1E2R9CB01#	
		1.2pF	±0.05pF	GJM0335C1E1R2WB01#						±0.05pF	GJM0335C1E3R0WB01#	
				±0.1pF	GJM0335C1E1R2BB01#					±0.1pF	GJM0335C1E3R0BB01#	
				±0.25pF	GJM0335C1E1R2CB01#					±0.25pF	GJM0335C1E3R0CB01#	
		1.3pF	±0.05pF	GJM0335C1E1R3WB01#						±0.05pF	GJM0335C1E3R1WB01#	
				±0.1pF	GJM0335C1E1R3BB01#					±0.1pF	GJM0335C1E3R1BB01#	
				±0.25pF	GJM0335C1E1R3CB01#					±0.25pF	GJM0335C1E3R1CB01#	
		1.4pF	±0.05pF	GJM0335C1E1R4WB01#						±0.05pF	GJM0335C1E3R2WB01#	
				±0.1pF	GJM0335C1E1R4BB01#					±0.1pF	GJM0335C1E3R2BB01#	
				±0.25pF	GJM0335C1E1R4CB01#					±0.25pF	GJM0335C1E3R2CB01#	
		1.5pF	±0.05pF	GJM0335C1E1R5WB01#						±0.05pF	GJM0335C1E3R3WB01#	
				±0.1pF	GJM0335C1E1R5BB01#					±0.1pF	GJM0335C1E3R3BB01#	
				±0.25pF	GJM0335C1E1R5CB01#					±0.25pF	GJM0335C1E3R3CB01#	
		1.6pF	±0.05pF	GJM0335C1E1R6WB01#						±0.05pF	GJM0335C1E3R4WB01#	
				±0.1pF	GJM0335C1E1R6BB01#					±0.1pF	GJM0335C1E3R4BB01#	
				±0.25pF	GJM0335C1E1R6CB01#					±0.25pF	GJM0335C1E3R4CB01#	
		1.7pF	±0.05pF	GJM0335C1E1R7WB01#						±0.05pF	GJM0335C1E3R5WB01#	
				±0.1pF	GJM0335C1E1R7BB01#					±0.1pF	GJM0335C1E3R5BB01#	
				±0.25pF	GJM0335C1E1R7CB01#					±0.25pF	GJM0335C1E3R5CB01#	
		1.8pF	±0.05pF	GJM0335C1E1R8WB01#						±0.05pF	GJM0335C1E3R6WB01#	
				±0.1pF	GJM0335C1E1R8BB01#					±0.1pF	GJM0335C1E3R6BB01#	
				±0.25pF	GJM0335C1E1R8CB01#					±0.25pF	GJM0335C1E3R6CB01#	
		1.9pF	±0.05pF	GJM0335C1E1R9WB01#						±0.05pF	GJM0335C1E3R7WB01#	
				±0.1pF	GJM0335C1E1R9BB01#					±0.1pF	GJM0335C1E3R7BB01#	
				±0.25pF	GJM0335C1E1R9CB01#					±0.25pF	GJM0335C1E3R7CB01#	
		2.0pF	±0.05pF	GJM0335C1E2R0WB01#						±0.05pF	GJM0335C1E3R8WB01#	
				±0.1pF	GJM0335C1E2R0BB01#					±0.1pF	GJM0335C1E3R8BB01#	
				±0.25pF	GJM0335C1E2R0CB01#					±0.25pF	GJM0335C1E3R8CB01#	
		2.1pF	±0.05pF	GJM0335C1E2R1WB01#						±0.05pF	GJM0335C1E3R9WB01#	
				±0.1pF	GJM0335C1E2R1BB01#					±0.1pF	GJM0335C1E3R9BB01#	
				±0.25pF	GJM0335C1E2R1CB01#					±0.25pF	GJM0335C1E3R9CB01#	
		2.2pF	±0.05pF	GJM0335C1E2R2WB01#						±0.05pF	GJM0335C1E4R0WB01#	
				±0.1pF	GJM0335C1E2R2BB01#					±0.1pF	GJM0335C1E4R0BB01#	
				±0.25pF	GJM0335C1E2R2CB01#					±0.25pF	GJM0335C1E4R0CB01#	
		2.3pF	±0.05pF	GJM0335C1E2R3WB01#						±0.05pF	GJM0335C1E4R1WB01#	
				±0.1pF	GJM0335C1E2R3BB01#					±0.1pF	GJM0335C1E4R1BB01#	
				±0.25pF	GJM0335C1E2R3CB01#					±0.25pF	GJM0335C1E4R1CB01#	

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	COG	4.2pF	±0.05pF	GJM0335C1E4R2WB01#	0.33mm	25Vdc	COG	5.7pF	±0.5pF	GJM0335C1E5R7DB01#
				±0.1pF	GJM0335C1E4R2BB01#				5.8pF	±0.05pF	GJM0335C1E5R8WB01#
				±0.25pF	GJM0335C1E4R2CB01#					±0.1pF	GJM0335C1E5R8BB01#
			4.3pF	±0.05pF	GJM0335C1E4R3WB01#					±0.25pF	GJM0335C1E5R8CB01#
				±0.1pF	GJM0335C1E4R3BB01#					±0.5pF	GJM0335C1E5R8DB01#
				±0.25pF	GJM0335C1E4R3CB01#				5.9pF	±0.05pF	GJM0335C1E5R9WB01#
			4.4pF	±0.05pF	GJM0335C1E4R4WB01#					±0.1pF	GJM0335C1E5R9BB01#
				±0.1pF	GJM0335C1E4R4BB01#					±0.25pF	GJM0335C1E5R9CB01#
				±0.25pF	GJM0335C1E4R4CB01#					±0.5pF	GJM0335C1E5R9DB01#
			4.5pF	±0.05pF	GJM0335C1E4R5WB01#				6.0pF	±0.05pF	GJM0335C1E6R0WB01#
				±0.1pF	GJM0335C1E4R5BB01#					±0.1pF	GJM0335C1E6R0BB01#
				±0.25pF	GJM0335C1E4R5CB01#					±0.25pF	GJM0335C1E6R0CB01#
			4.6pF	±0.05pF	GJM0335C1E4R6WB01#					±0.5pF	GJM0335C1E6R0DB01#
				±0.1pF	GJM0335C1E4R6BB01#				6.1pF	±0.05pF	GJM0335C1E6R1WB01#
				±0.25pF	GJM0335C1E4R6CB01#					±0.1pF	GJM0335C1E6R1BB01#
			4.7pF	±0.05pF	GJM0335C1E4R7WB01#					±0.25pF	GJM0335C1E6R1CB01#
				±0.1pF	GJM0335C1E4R7BB01#					±0.5pF	GJM0335C1E6R1DB01#
				±0.25pF	GJM0335C1E4R7CB01#				6.2pF	±0.05pF	GJM0335C1E6R2WB01#
			4.8pF	±0.05pF	GJM0335C1E4R8WB01#					±0.1pF	GJM0335C1E6R2BB01#
				±0.1pF	GJM0335C1E4R8BB01#					±0.25pF	GJM0335C1E6R2CB01#
				±0.25pF	GJM0335C1E4R8CB01#					±0.5pF	GJM0335C1E6R2DB01#
			4.9pF	±0.05pF	GJM0335C1E4R9WB01#				6.3pF	±0.05pF	GJM0335C1E6R3WB01#
				±0.1pF	GJM0335C1E4R9BB01#					±0.1pF	GJM0335C1E6R3BB01#
				±0.25pF	GJM0335C1E4R9CB01#					±0.25pF	GJM0335C1E6R3CB01#
			5.0pF	±0.05pF	GJM0335C1E5R0WB01#					±0.5pF	GJM0335C1E6R3DB01#
				±0.1pF	GJM0335C1E5R0BB01#				6.4pF	±0.05pF	GJM0335C1E6R4WB01#
				±0.25pF	GJM0335C1E5R0CB01#					±0.1pF	GJM0335C1E6R4BB01#
			5.1pF	±0.05pF	GJM0335C1E5R1WB01#					±0.25pF	GJM0335C1E6R4CB01#
				±0.1pF	GJM0335C1E5R1BB01#					±0.5pF	GJM0335C1E6R4DB01#
				±0.25pF	GJM0335C1E5R1CB01#				6.5pF	±0.05pF	GJM0335C1E6R5WB01#
				±0.5pF	GJM0335C1E5R1DB01#					±0.1pF	GJM0335C1E6R5BB01#
			5.2pF	±0.05pF	GJM0335C1E5R2WB01#					±0.25pF	GJM0335C1E6R5CB01#
				±0.1pF	GJM0335C1E5R2BB01#					±0.5pF	GJM0335C1E6R5DB01#
				±0.25pF	GJM0335C1E5R2CB01#				6.6pF	±0.05pF	GJM0335C1E6R6WB01#
				±0.5pF	GJM0335C1E5R2DB01#					±0.1pF	GJM0335C1E6R6BB01#
			5.3pF	±0.05pF	GJM0335C1E5R3WB01#					±0.25pF	GJM0335C1E6R6CB01#
				±0.1pF	GJM0335C1E5R3BB01#					±0.5pF	GJM0335C1E6R6DB01#
				±0.25pF	GJM0335C1E5R3CB01#				6.7pF	±0.05pF	GJM0335C1E6R7WB01#
				±0.5pF	GJM0335C1E5R3DB01#					±0.1pF	GJM0335C1E6R7BB01#
			5.4pF	±0.05pF	GJM0335C1E5R4WB01#					±0.25pF	GJM0335C1E6R7CB01#
				±0.1pF	GJM0335C1E5R4BB01#					±0.5pF	GJM0335C1E6R7DB01#
				±0.25pF	GJM0335C1E5R4CB01#				6.8pF	±0.05pF	GJM0335C1E6R8WB01#
				±0.5pF	GJM0335C1E5R4DB01#					±0.1pF	GJM0335C1E6R8BB01#
			5.5pF	±0.05pF	GJM0335C1E5R5WB01#					±0.25pF	GJM0335C1E6R8CB01#
				±0.1pF	GJM0335C1E5R5BB01#					±0.5pF	GJM0335C1E6R8DB01#
				±0.25pF	GJM0335C1E5R5CB01#				6.9pF	±0.05pF	GJM0335C1E6R9WB01#
				±0.5pF	GJM0335C1E5R5DB01#					±0.1pF	GJM0335C1E6R9BB01#
			5.6pF	±0.05pF	GJM0335C1E5R6WB01#					±0.25pF	GJM0335C1E6R9CB01#
				±0.1pF	GJM0335C1E5R6BB01#					±0.5pF	GJM0335C1E6R9DB01#
				±0.25pF	GJM0335C1E5R6CB01#				7.0pF	±0.05pF	GJM0335C1E7R0WB01#
				±0.5pF	GJM0335C1E5R6DB01#					±0.1pF	GJM0335C1E7R0BB01#
			5.7pF	±0.05pF	GJM0335C1E5R7WB01#					±0.25pF	GJM0335C1E7R0CB01#
				±0.1pF	GJM0335C1E5R7BB01#					±0.5pF	GJM0335C1E7R0DB01#
				±0.25pF	GJM0335C1E5R7CB01#				7.1pF	±0.05pF	GJM0335C1E7R1WB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	COG	7.1pF	±0.1pF	GJM0335C1E7R1BB01#	0.33mm	25Vdc	COG	8.4pF	±0.5pF	GJM0335C1E8R4DB01#
				±0.25pF	GJM0335C1E7R1CB01#				8.5pF	±0.05pF	GJM0335C1E8R5WB01#
				±0.5pF	GJM0335C1E7R1DB01#					±0.1pF	GJM0335C1E8R5BB01#
			7.2pF	±0.05pF	GJM0335C1E7R2WB01#					±0.25pF	GJM0335C1E8R5CB01#
				±0.1pF	GJM0335C1E7R2BB01#					±0.5pF	GJM0335C1E8R5DB01#
				±0.25pF	GJM0335C1E7R2CB01#				8.6pF	±0.05pF	GJM0335C1E8R6WB01#
				±0.5pF	GJM0335C1E7R2DB01#					±0.1pF	GJM0335C1E8R6BB01#
			7.3pF	±0.05pF	GJM0335C1E7R3WB01#					±0.25pF	GJM0335C1E8R6CB01#
				±0.1pF	GJM0335C1E7R3BB01#					±0.5pF	GJM0335C1E8R6DB01#
				±0.25pF	GJM0335C1E7R3CB01#				8.7pF	±0.05pF	GJM0335C1E8R7WB01#
				±0.5pF	GJM0335C1E7R3DB01#					±0.1pF	GJM0335C1E8R7BB01#
			7.4pF	±0.05pF	GJM0335C1E7R4WB01#					±0.25pF	GJM0335C1E8R7CB01#
				±0.1pF	GJM0335C1E7R4BB01#					±0.5pF	GJM0335C1E8R7DB01#
				±0.25pF	GJM0335C1E7R4CB01#				8.8pF	±0.05pF	GJM0335C1E8R8WB01#
				±0.5pF	GJM0335C1E7R4DB01#					±0.1pF	GJM0335C1E8R8BB01#
			7.5pF	±0.05pF	GJM0335C1E7R5WB01#					±0.25pF	GJM0335C1E8R8CB01#
				±0.1pF	GJM0335C1E7R5BB01#					±0.5pF	GJM0335C1E8R8DB01#
				±0.25pF	GJM0335C1E7R5CB01#				8.9pF	±0.05pF	GJM0335C1E8R9WB01#
				±0.5pF	GJM0335C1E7R5DB01#					±0.1pF	GJM0335C1E8R9BB01#
			7.6pF	±0.05pF	GJM0335C1E7R6WB01#					±0.25pF	GJM0335C1E8R9CB01#
				±0.1pF	GJM0335C1E7R6BB01#					±0.5pF	GJM0335C1E8R9DB01#
				±0.25pF	GJM0335C1E7R6CB01#				9.0pF	±0.05pF	GJM0335C1E9R0WB01#
				±0.5pF	GJM0335C1E7R6DB01#					±0.1pF	GJM0335C1E9R0BB01#
			7.7pF	±0.05pF	GJM0335C1E7R7WB01#					±0.25pF	GJM0335C1E9R0CB01#
				±0.1pF	GJM0335C1E7R7BB01#					±0.5pF	GJM0335C1E9R0DB01#
				±0.25pF	GJM0335C1E7R7CB01#				9.1pF	±0.05pF	GJM0335C1E9R1WB01#
				±0.5pF	GJM0335C1E7R7DB01#					±0.1pF	GJM0335C1E9R1BB01#
			7.8pF	±0.05pF	GJM0335C1E7R8WB01#					±0.25pF	GJM0335C1E9R1CB01#
				±0.1pF	GJM0335C1E7R8BB01#					±0.5pF	GJM0335C1E9R1DB01#
				±0.25pF	GJM0335C1E7R8CB01#				9.2pF	±0.05pF	GJM0335C1E9R2WB01#
				±0.5pF	GJM0335C1E7R8DB01#					±0.1pF	GJM0335C1E9R2BB01#
			7.9pF	±0.05pF	GJM0335C1E7R9WB01#					±0.25pF	GJM0335C1E9R2CB01#
				±0.1pF	GJM0335C1E7R9BB01#					±0.5pF	GJM0335C1E9R2DB01#
				±0.25pF	GJM0335C1E7R9CB01#				9.3pF	±0.05pF	GJM0335C1E9R3WB01#
				±0.5pF	GJM0335C1E7R9DB01#					±0.1pF	GJM0335C1E9R3BB01#
			8.0pF	±0.05pF	GJM0335C1E8R0WB01#					±0.25pF	GJM0335C1E9R3CB01#
				±0.1pF	GJM0335C1E8R0BB01#					±0.5pF	GJM0335C1E9R3DB01#
				±0.25pF	GJM0335C1E8R0CB01#				9.4pF	±0.05pF	GJM0335C1E9R4WB01#
				±0.5pF	GJM0335C1E8R0DB01#					±0.1pF	GJM0335C1E9R4BB01#
			8.1pF	±0.05pF	GJM0335C1E8R1WB01#					±0.25pF	GJM0335C1E9R4CB01#
				±0.1pF	GJM0335C1E8R1BB01#					±0.5pF	GJM0335C1E9R4DB01#
				±0.25pF	GJM0335C1E8R1CB01#				9.5pF	±0.05pF	GJM0335C1E9R5WB01#
				±0.5pF	GJM0335C1E8R1DB01#					±0.1pF	GJM0335C1E9R5BB01#
			8.2pF	±0.05pF	GJM0335C1E8R2WB01#					±0.25pF	GJM0335C1E9R5CB01#
				±0.1pF	GJM0335C1E8R2BB01#					±0.5pF	GJM0335C1E9R5DB01#
				±0.25pF	GJM0335C1E8R2CB01#				9.6pF	±0.05pF	GJM0335C1E9R6WB01#
				±0.5pF	GJM0335C1E8R2DB01#					±0.1pF	GJM0335C1E9R6BB01#
			8.3pF	±0.05pF	GJM0335C1E8R3WB01#					±0.25pF	GJM0335C1E9R6CB01#
				±0.1pF	GJM0335C1E8R3BB01#					±0.5pF	GJM0335C1E9R6DB01#
				±0.25pF	GJM0335C1E8R3CB01#				9.7pF	±0.05pF	GJM0335C1E9R7WB01#
				±0.5pF	GJM0335C1E8R3DB01#					±0.1pF	GJM0335C1E9R7BB01#
			8.4pF	±0.05pF	GJM0335C1E8R4WB01#					±0.25pF	GJM0335C1E9R7CB01#
				±0.1pF	GJM0335C1E8R4BB01#					±0.5pF	GJM0335C1E9R7DB01#
				±0.25pF	GJM0335C1E8R4CB01#				9.8pF	±0.05pF	GJM0335C1E9R8WB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	COG	9.8pF	±0.1pF	GJM0335C1E9R8BB01#	0.33mm	25Vdc	CK	1.7pF	±0.05pF	GJM0334C1E1R7WB01#	
				±0.25pF	GJM0335C1E9R8CB01#					±0.1pF	GJM0334C1E1R7BB01#	
				±0.5pF	GJM0335C1E9R8DB01#					±0.25pF	GJM0334C1E1R7CB01#	
			9.9pF	±0.05pF	GJM0335C1E9R9WB01#			1.8pF	±0.05pF	GJM0334C1E1R8WB01#		
				±0.1pF	GJM0335C1E9R9BB01#					±0.1pF	GJM0334C1E1R8BB01#	
				±0.25pF	GJM0335C1E9R9CB01#					±0.25pF	GJM0334C1E1R8CB01#	
				±0.5pF	GJM0335C1E9R9DB01#					±0.05pF	GJM0334C1E1R9WB01#	
			10pF	±2%	GJM0335C1E100GB01#			1.9pF	±0.05pF	GJM0334C1E1R9BB01#		
				±5%	GJM0335C1E100JB01#					±0.1pF	GJM0334C1E1R9CB01#	
			11pF	±2%	GJM0335C1E110GB01#					±0.25pF	GJM0334C1E1R9CB01#	
				±5%	GJM0335C1E110JB01#					±0.05pF	GJM0334C1E2ROWB01#	
			12pF	±2%	GJM0335C1E120GB01#			2.0pF	±0.05pF	GJM0334C1E2R0BB01#		
				±5%	GJM0335C1E120JB01#					±0.1pF	GJM0334C1E2R0CB01#	
			13pF	±2%	GJM0335C1E130GB01#					±0.25pF	GJM0334C1E2ROCB01#	
				±5%	GJM0335C1E130JB01#					±0.05pF	GJM0333C1E2R1WB01#	
			15pF	±2%	GJM0335C1E150GB01#			2.1pF	±0.05pF	GJM0333C1E2R1BB01#		
				±5%	GJM0335C1E150JB01#					±0.1pF	GJM0333C1E2R1CB01#	
			16pF	±2%	GJM0335C1E160GB01#					±0.25pF	GJM0333C1E2R1CB01#	
				±5%	GJM0335C1E160JB01#					±0.05pF	GJM0333C1E2R2WB01#	
			18pF	±2%	GJM0335C1E180GB01#			2.2pF	±0.05pF	GJM0333C1E2R2BB01#		
				±5%	GJM0335C1E180JB01#					±0.1pF	GJM0333C1E2R2BB01#	
			20pF	±2%	GJM0335C1E200GB01#					±0.25pF	GJM0333C1E2R2CB01#	
				±5%	GJM0335C1E200JB01#					±0.05pF	GJM0333C1E2R3WB01#	
			22pF	±2%	GJM0335C1E220GB01#			2.3pF	±0.05pF	GJM0333C1E2R3BB01#		
				±5%	GJM0335C1E220JB01#					±0.1pF	GJM0333C1E2R3CB01#	
			24pF	±2%	GJM0335C1E240GB01#					±0.25pF	GJM0333C1E2R4WB01#	
				±5%	GJM0335C1E240JB01#					±0.05pF	GJM0333C1E2R4BB01#	
			27pF	±2%	GJM0335C1E270GB01#			2.4pF	±0.05pF	GJM0333C1E2R4CB01#		
				±5%	GJM0335C1E270JB01#					±0.1pF	GJM0333C1E2R5WB01#	
			30pF	±2%	GJM0335C1E300GB01#					±0.25pF	GJM0333C1E2R5BB01#	
				±5%	GJM0335C1E300JB01#					±0.05pF	GJM0333C1E2R6WB01#	
			33pF	±2%	GJM0335C1E330GB01#			2.5pF	±0.05pF	GJM0333C1E2R6CB01#		
				±5%	GJM0335C1E330JB01#					±0.1pF	GJM0333C1E2R6CB01#	
		CK	1.0pF	±0.05pF	GJM0334C1E1R0WB01#					±0.25pF	GJM0333C1E2R6CB01#	
				±0.1pF	GJM0334C1E1R0BB01#					±0.05pF	GJM0333C1E2R7WB01#	
				±0.25pF	GJM0334C1E1R0CB01#			2.6pF	±0.05pF	GJM0333C1E2R7BB01#		
			1.1pF	±0.05pF	GJM0334C1E1R1WB01#					±0.1pF	GJM0333C1E2R7CB01#	
				±0.1pF	GJM0334C1E1R1BB01#					±0.25pF	GJM0333C1E2R8WB01#	
				±0.25pF	GJM0334C1E1R1CB01#					±0.05pF	GJM0333C1E2R8BB01#	
			1.2pF	±0.05pF	GJM0334C1E1R2WB01#			2.7pF	±0.05pF	GJM0333C1E2R8CB01#		
				±0.1pF	GJM0334C1E1R2BB01#					±0.1pF	GJM0333C1E2R7WB01#	
				±0.25pF	GJM0334C1E1R2CB01#					±0.25pF	GJM0333C1E2R7BB01#	
			1.3pF	±0.05pF	GJM0334C1E1R3WB01#				2.8pF	±0.05pF	GJM0333C1E2R8WB01#	
				±0.1pF	GJM0334C1E1R3BB01#						±0.1pF	GJM0333C1E2R8BB01#
				±0.25pF	GJM0334C1E1R3CB01#						±0.25pF	GJM0333C1E2R8CB01#
			1.4pF	±0.05pF	GJM0334C1E1R4WB01#			2.9pF	±0.05pF	GJM0333C1E2R9WB01#		
				±0.1pF	GJM0334C1E1R4BB01#					±0.1pF	GJM0333C1E2R9BB01#	
				±0.25pF	GJM0334C1E1R4CB01#					±0.25pF	GJM0333C1E2R9CB01#	
			1.5pF	±0.05pF	GJM0334C1E1R5WB01#				3.0pF	±0.05pF	GJM0333C1E3ROWB01#	
				±0.1pF	GJM0334C1E1R5BB01#						±0.1pF	GJM0333C1E3ROBB01#
				±0.25pF	GJM0334C1E1R5CB01#						±0.25pF	GJM0333C1E3R0CB01#
			1.6pF	±0.05pF	GJM0334C1E1R6WB01#				3.1pF	±0.05pF	GJM0333C1E3R1WB01#	
				±0.1pF	GJM0334C1E1R6BB01#						±0.1pF	GJM0333C1E3R1BB01#
				±0.25pF	GJM0334C1E1R6CB01#						±0.25pF	GJM0333C1E3R1CB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	CJ	3.5pF	±0.05pF	GJM0333C1E3R5WB01#	0.33mm	25Vdc	CH	5.2pF	±0.25pF	GJM0332C1E5R2CB01#
				±0.1pF	GJM0333C1E3R5BB01#					±0.5pF	GJM0332C1E5R2DB01#
				±0.25pF	GJM0333C1E3R5CB01#				5.3pF	±0.05pF	GJM0332C1E5R3WB01#
			3.6pF	±0.05pF	GJM0333C1E3R6WB01#					±0.1pF	GJM0332C1E5R3BB01#
				±0.1pF	GJM0333C1E3R6BB01#					±0.25pF	GJM0332C1E5R3CB01#
				±0.25pF	GJM0333C1E3R6CB01#					±0.5pF	GJM0332C1E5R3DB01#
			3.7pF	±0.05pF	GJM0333C1E3R7WB01#				5.4pF	±0.05pF	GJM0332C1E5R4WB01#
				±0.1pF	GJM0333C1E3R7BB01#					±0.1pF	GJM0332C1E5R4BB01#
				±0.25pF	GJM0333C1E3R7CB01#					±0.25pF	GJM0332C1E5R4CB01#
			3.8pF	±0.05pF	GJM0333C1E3R8WB01#					±0.5pF	GJM0332C1E5R4DB01#
				±0.1pF	GJM0333C1E3R8BB01#				5.5pF	±0.05pF	GJM0332C1E5R5WB01#
				±0.25pF	GJM0333C1E3R8CB01#					±0.1pF	GJM0332C1E5R5BB01#
			3.9pF	±0.05pF	GJM0333C1E3R9WB01#					±0.25pF	GJM0332C1E5R5CB01#
				±0.1pF	GJM0333C1E3R9BB01#					±0.5pF	GJM0332C1E5R5DB01#
				±0.25pF	GJM0333C1E3R9CB01#				5.6pF	±0.05pF	GJM0332C1E5R6WB01#
		CH	4.0pF	±0.05pF	GJM0332C1E4R0WB01#					±0.1pF	GJM0332C1E5R6BB01#
				±0.1pF	GJM0332C1E4R0BB01#					±0.25pF	GJM0332C1E5R6CB01#
				±0.25pF	GJM0332C1E4R0CB01#					±0.5pF	GJM0332C1E5R6DB01#
			4.1pF	±0.05pF	GJM0332C1E4R1WB01#				5.7pF	±0.05pF	GJM0332C1E5R7WB01#
				±0.1pF	GJM0332C1E4R1BB01#					±0.1pF	GJM0332C1E5R7BB01#
				±0.25pF	GJM0332C1E4R1CB01#					±0.25pF	GJM0332C1E5R7CB01#
			4.2pF	±0.05pF	GJM0332C1E4R2WB01#					±0.5pF	GJM0332C1E5R7DB01#
				±0.1pF	GJM0332C1E4R2BB01#				5.8pF	±0.05pF	GJM0332C1E5R8WB01#
				±0.25pF	GJM0332C1E4R2CB01#					±0.1pF	GJM0332C1E5R8BB01#
			4.3pF	±0.05pF	GJM0332C1E4R3WB01#					±0.25pF	GJM0332C1E5R8CB01#
				±0.1pF	GJM0332C1E4R3BB01#					±0.5pF	GJM0332C1E5R8DB01#
				±0.25pF	GJM0332C1E4R3CB01#				5.9pF	±0.05pF	GJM0332C1E5R9WB01#
			4.4pF	±0.05pF	GJM0332C1E4R4WB01#					±0.1pF	GJM0332C1E5R9BB01#
				±0.1pF	GJM0332C1E4R4BB01#					±0.25pF	GJM0332C1E5R9CB01#
				±0.25pF	GJM0332C1E4R4CB01#					±0.5pF	GJM0332C1E5R9DB01#
			4.5pF	±0.05pF	GJM0332C1E4R5WB01#				6.0pF	±0.05pF	GJM0332C1E6ROWB01#
				±0.1pF	GJM0332C1E4R5BB01#					±0.1pF	GJM0332C1E6R0BB01#
				±0.25pF	GJM0332C1E4R5CB01#					±0.25pF	GJM0332C1E6R0CB01#
			4.6pF	±0.05pF	GJM0332C1E4R6WB01#					±0.5pF	GJM0332C1E6R0DB01#
				±0.1pF	GJM0332C1E4R6BB01#				6.1pF	±0.05pF	GJM0332C1E6R1WB01#
				±0.25pF	GJM0332C1E4R6CB01#					±0.1pF	GJM0332C1E6R1BB01#
			4.7pF	±0.05pF	GJM0332C1E4R7WB01#					±0.25pF	GJM0332C1E6R1CB01#
				±0.1pF	GJM0332C1E4R7BB01#					±0.5pF	GJM0332C1E6R1DB01#
				±0.25pF	GJM0332C1E4R7CB01#				6.2pF	±0.05pF	GJM0332C1E6R2WB01#
			4.8pF	±0.05pF	GJM0332C1E4R8WB01#					±0.1pF	GJM0332C1E6R2BB01#
				±0.1pF	GJM0332C1E4R8BB01#					±0.25pF	GJM0332C1E6R2CB01#
				±0.25pF	GJM0332C1E4R8CB01#					±0.5pF	GJM0332C1E6R2DB01#
			4.9pF	±0.05pF	GJM0332C1E4R9WB01#				6.3pF	±0.05pF	GJM0332C1E6R3WB01#
				±0.1pF	GJM0332C1E4R9BB01#					±0.1pF	GJM0332C1E6R3BB01#
				±0.25pF	GJM0332C1E4R9CB01#					±0.25pF	GJM0332C1E6R3CB01#
			5.0pF	±0.05pF	GJM0332C1E5R0WB01#					±0.5pF	GJM0332C1E6R3DB01#
				±0.1pF	GJM0332C1E5R0BB01#				6.4pF	±0.05pF	GJM0332C1E6R4WB01#
				±0.25pF	GJM0332C1E5R0CB01#					±0.1pF	GJM0332C1E6R4BB01#
			5.1pF	±0.05pF	GJM0332C1E5R1WB01#					±0.25pF	GJM0332C1E6R4CB01#
				±0.1pF	GJM0332C1E5R1BB01#					±0.5pF	GJM0332C1E6R4DB01#
				±0.25pF	GJM0332C1E5R1CB01#				6.5pF	±0.05pF	GJM0332C1E6R5WB01#
			5.2pF	±0.05pF	GJM0332C1E5R2WB01#					±0.1pF	GJM0332C1E6R5BB01#
				±0.1pF	GJM0332C1E5R2BB01#					±0.25pF	GJM0332C1E6R5CB01#
				±0.25pF	GJM0332C1E5R2CB01#					±0.5pF	GJM0332C1E6R5DB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	CH	6.6pF	±0.05pF	<b>GJM0332C1E6R6WB01#</b>
				±0.1pF	<b>GJM0332C1E6R6BB01#</b>
				±0.25pF	<b>GJM0332C1E6R6CB01#</b>
				±0.5pF	<b>GJM0332C1E6R6DB01#</b>
			6.7pF	±0.05pF	<b>GJM0332C1E6R7WB01#</b>
				±0.1pF	<b>GJM0332C1E6R7BB01#</b>
				±0.25pF	<b>GJM0332C1E6R7CB01#</b>
				±0.5pF	<b>GJM0332C1E6R7DB01#</b>
			6.8pF	±0.05pF	<b>GJM0332C1E6R8WB01#</b>
				±0.1pF	<b>GJM0332C1E6R8BB01#</b>
				±0.25pF	<b>GJM0332C1E6R8CB01#</b>
				±0.5pF	<b>GJM0332C1E6R8DB01#</b>
			6.9pF	±0.05pF	<b>GJM0332C1E6R9WB01#</b>
				±0.1pF	<b>GJM0332C1E6R9BB01#</b>
				±0.25pF	<b>GJM0332C1E6R9CB01#</b>
				±0.5pF	<b>GJM0332C1E6R9DB01#</b>
			7.0pF	±0.05pF	<b>GJM0332C1E7R0WB01#</b>
				±0.1pF	<b>GJM0332C1E7R0BB01#</b>
				±0.25pF	<b>GJM0332C1E7R0CB01#</b>
				±0.5pF	<b>GJM0332C1E7R0DB01#</b>
			7.1pF	±0.05pF	<b>GJM0332C1E7R1WB01#</b>
				±0.1pF	<b>GJM0332C1E7R1BB01#</b>
				±0.25pF	<b>GJM0332C1E7R1CB01#</b>
				±0.5pF	<b>GJM0332C1E7R1DB01#</b>
			7.2pF	±0.05pF	<b>GJM0332C1E7R2WB01#</b>
				±0.1pF	<b>GJM0332C1E7R2BB01#</b>
				±0.25pF	<b>GJM0332C1E7R2CB01#</b>
				±0.5pF	<b>GJM0332C1E7R2DB01#</b>
			7.3pF	±0.05pF	<b>GJM0332C1E7R3WB01#</b>
				±0.1pF	<b>GJM0332C1E7R3BB01#</b>
				±0.25pF	<b>GJM0332C1E7R3CB01#</b>
				±0.5pF	<b>GJM0332C1E7R3DB01#</b>
			7.4pF	±0.05pF	<b>GJM0332C1E7R4WB01#</b>
				±0.1pF	<b>GJM0332C1E7R4BB01#</b>
				±0.25pF	<b>GJM0332C1E7R4CB01#</b>
				±0.5pF	<b>GJM0332C1E7R4DB01#</b>
			7.5pF	±0.05pF	<b>GJM0332C1E7R5WB01#</b>
				±0.1pF	<b>GJM0332C1E7R5BB01#</b>
				±0.25pF	<b>GJM0332C1E7R5CB01#</b>
				±0.5pF	<b>GJM0332C1E7R5DB01#</b>
			7.6pF	±0.05pF	<b>GJM0332C1E7R6WB01#</b>
				±0.1pF	<b>GJM0332C1E7R6BB01#</b>
				±0.25pF	<b>GJM0332C1E7R6CB01#</b>
				±0.5pF	<b>GJM0332C1E7R6DB01#</b>
			7.7pF	±0.05pF	<b>GJM0332C1E7R7WB01#</b>
				±0.1pF	<b>GJM0332C1E7R7BB01#</b>
				±0.25pF	<b>GJM0332C1E7R7CB01#</b>
				±0.5pF	<b>GJM0332C1E7R7DB01#</b>
			7.8pF	±0.05pF	<b>GJM0332C1E7R8WB01#</b>
				±0.1pF	<b>GJM0332C1E7R8BB01#</b>
				±0.25pF	<b>GJM0332C1E7R8CB01#</b>
				±0.5pF	<b>GJM0332C1E7R8DB01#</b>
			7.9pF	±0.05pF	<b>GJM0332C1E7R9WB01#</b>
				±0.1pF	<b>GJM0332C1E7R9BB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	CH	7.9pF	±0.25pF	<b>GJM0332C1E7R9CB01#</b>
				±0.5pF	<b>GJM0332C1E7R9DB01#</b>
			8.0pF	±0.05pF	<b>GJM0332C1E8R0WB01#</b>
				±0.1pF	<b>GJM0332C1E8R0BB01#</b>
				±0.25pF	<b>GJM0332C1E8R0CB01#</b>
				±0.5pF	<b>GJM0332C1E8R0DB01#</b>
			8.1pF	±0.05pF	<b>GJM0332C1E8R1WB01#</b>
				±0.1pF	<b>GJM0332C1E8R1BB01#</b>
				±0.25pF	<b>GJM0332C1E8R1CB01#</b>
				±0.5pF	<b>GJM0332C1E8R1DB01#</b>
			8.2pF	±0.05pF	<b>GJM0332C1E8R2WB01#</b>
				±0.1pF	<b>GJM0332C1E8R2BB01#</b>
				±0.25pF	<b>GJM0332C1E8R2CB01#</b>
				±0.5pF	<b>GJM0332C1E8R2DB01#</b>
			8.3pF	±0.05pF	<b>GJM0332C1E8R3WB01#</b>
				±0.1pF	<b>GJM0332C1E8R3BB01#</b>
				±0.25pF	<b>GJM0332C1E8R3CB01#</b>
				±0.5pF	<b>GJM0332C1E8R3DB01#</b>
			8.4pF	±0.05pF	<b>GJM0332C1E8R4WB01#</b>
				±0.1pF	<b>GJM0332C1E8R4BB01#</b>
				±0.25pF	<b>GJM0332C1E8R4CB01#</b>
				±0.5pF	<b>GJM0332C1E8R4DB01#</b>
			8.5pF	±0.05pF	<b>GJM0332C1E8R5WB01#</b>
				±0.1pF	<b>GJM0332C1E8R5BB01#</b>
				±0.25pF	<b>GJM0332C1E8R5CB01#</b>
				±0.5pF	<b>GJM0332C1E8R5DB01#</b>
			8.6pF	±0.05pF	<b>GJM0332C1E8R6WB01#</b>
				±0.1pF	<b>GJM0332C1E8R6BB01#</b>
				±0.25pF	<b>GJM0332C1E8R6CB01#</b>
				±0.5pF	<b>GJM0332C1E8R6DB01#</b>
			8.7pF	±0.05pF	<b>GJM0332C1E8R7WB01#</b>
				±0.1pF	<b>GJM0332C1E8R7BB01#</b>
				±0.25pF	<b>GJM0332C1E8R7CB01#</b>
				±0.5pF	<b>GJM0332C1E8R7DB01#</b>
			8.8pF	±0.05pF	<b>GJM0332C1E8R8WB01#</b>
				±0.1pF	<b>GJM0332C1E8R8BB01#</b>
				±0.25pF	<b>GJM0332C1E8R8CB01#</b>
				±0.5pF	<b>GJM0332C1E8R8DB01#</b>
			8.9pF	±0.05pF	<b>GJM0332C1E8R9WB01#</b>
				±0.1pF	<b>GJM0332C1E8R9BB01#</b>
				±0.25pF	<b>GJM0332C1E8R9CB01#</b>
				±0.5pF	<b>GJM0332C1E8R9DB01#</b>
			9.0pF	±0.05pF	<b>GJM0332C1E9R0WB01#</b>
				±0.1pF	<b>GJM0332C1E9R0BB01#</b>
				±0.25pF	<b>GJM0332C1E9R0CB01#</b>
				±0.5pF	<b>GJM0332C1E9R0DB01#</b>
			9.1pF	±0.05pF	<b>GJM0332C1E9R1WB01#</b>
				±0.1pF	<b>GJM0332C1E9R1BB01#</b>
				±0.25pF	<b>GJM0332C1E9R1CB01#</b>
				±0.5pF	<b>GJM0332C1E9R1DB01#</b>
			9.2pF	±0.05pF	<b>GJM0332C1E9R2WB01#</b>
				±0.1pF	<b>GJM0332C1E9R2BB01#</b>
				±0.25pF	<b>GJM0332C1E9R2CB01#</b>
				±0.5pF	<b>GJM0332C1E9R2DB01#</b>

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 0.6×0.3mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	25Vdc	CH	9.3pF	±0.05pF	GJM0332C1E9R3WB01#
				±0.1pF	GJM0332C1E9R3BB01#
				±0.25pF	GJM0332C1E9R3CB01#
				±0.5pF	GJM0332C1E9R3DB01#
			9.4pF	±0.05pF	GJM0332C1E9R4WB01#
				±0.1pF	GJM0332C1E9R4BB01#
				±0.25pF	GJM0332C1E9R4CB01#
				±0.5pF	GJM0332C1E9R4DB01#
			9.5pF	±0.05pF	GJM0332C1E9R5WB01#
				±0.1pF	GJM0332C1E9R5BB01#
				±0.25pF	GJM0332C1E9R5CB01#
				±0.5pF	GJM0332C1E9R5DB01#
			9.6pF	±0.05pF	GJM0332C1E9R6WB01#
				±0.1pF	GJM0332C1E9R6BB01#
				±0.25pF	GJM0332C1E9R6CB01#
				±0.5pF	GJM0332C1E9R6DB01#
			9.7pF	±0.05pF	GJM0332C1E9R7WB01#
				±0.1pF	GJM0332C1E9R7BB01#
				±0.25pF	GJM0332C1E9R7CB01#
				±0.5pF	GJM0332C1E9R7DB01#
			9.8pF	±0.05pF	GJM0332C1E9R8WB01#
				±0.1pF	GJM0332C1E9R8BB01#
				±0.25pF	GJM0332C1E9R8CB01#
				±0.5pF	GJM0332C1E9R8DB01#
			9.9pF	±0.05pF	GJM0332C1E9R9WB01#
				±0.1pF	GJM0332C1E9R9BB01#
				±0.25pF	GJM0332C1E9R9CB01#
				±0.5pF	GJM0332C1E9R9DB01#
			10pF	±2%	GJM0332C1E100GB01#
				±5%	GJM0332C1E100JB01#
			11pF	±2%	GJM0332C1E110GB01#
				±5%	GJM0332C1E110JB01#
			12pF	±2%	GJM0332C1E120GB01#
				±5%	GJM0332C1E120JB01#
			13pF	±2%	GJM0332C1E130GB01#
				±5%	GJM0332C1E130JB01#
			15pF	±2%	GJM0332C1E150GB01#
				±5%	GJM0332C1E150JB01#
			16pF	±2%	GJM0332C1E160GB01#
				±5%	GJM0332C1E160JB01#
			18pF	±2%	GJM0332C1E180GB01#
				±5%	GJM0332C1E180JB01#
			20pF	±2%	GJM0332C1E200GB01#
				±5%	GJM0332C1E200JB01#
			22pF	±2%	GJM0332C1E220GB01#
				±5%	GJM0332C1E220JB01#
			24pF	±2%	GJM0332C1E240GB01#
				±5%	GJM0332C1E240JB01#
			27pF	±2%	GJM0332C1E270GB01#
				±5%	GJM0332C1E270JB01#
			30pF	±2%	GJM0332C1E300GB01#
				±5%	GJM0332C1E300JB01#
			33pF	±2%	GJM0332C1E330GB01#
				±5%	GJM0332C1E330JB01#

### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	0.10pF	±0.05pF	GJM1555C1HR10WB01#
				±0.1pF	GJM1555C1HR10BB01#
				±0.25pF	GJM1555C1HR10CB01#
				±0.5pF	GJM1555C1HR10DB01#
			0.20pF	±0.05pF	GJM1555C1HR20WB01#
				±0.1pF	GJM1555C1HR20BB01#
				±0.25pF	GJM1555C1HR20CB01#
				±0.5pF	GJM1555C1HR20DB01#
			0.30pF	±0.05pF	GJM1555C1HR30WB01#
				±0.1pF	GJM1555C1HR30BB01#
				±0.25pF	GJM1555C1HR30CB01#
				±0.5pF	GJM1555C1HR30DB01#
			0.40pF	±0.05pF	GJM1555C1HR40WB01#
				±0.1pF	GJM1555C1HR40BB01#
				±0.25pF	GJM1555C1HR40CB01#
				±0.5pF	GJM1555C1HR40DB01#
			0.50pF	±0.05pF	GJM1555C1HR50WB01#
				±0.1pF	GJM1555C1HR50BB01#
				±0.25pF	GJM1555C1HR50CB01#
				±0.5pF	GJM1555C1HR50DB01#
			0.60pF	±0.05pF	GJM1555C1HR60WB01#
				±0.1pF	GJM1555C1HR60BB01#
				±0.25pF	GJM1555C1HR60CB01#
				±0.5pF	GJM1555C1HR60DB01#
			0.70pF	±0.05pF	GJM1555C1HR70WB01#
				±0.1pF	GJM1555C1HR70BB01#
				±0.25pF	GJM1555C1HR70CB01#
				±0.5pF	GJM1555C1HR70DB01#
			0.80pF	±0.05pF	GJM1555C1HR80WB01#
				±0.1pF	GJM1555C1HR80BB01#
				±0.25pF	GJM1555C1HR80CB01#
				±0.5pF	GJM1555C1HR80DB01#
			0.90pF	±0.05pF	GJM1555C1HR90WB01#
				±0.1pF	GJM1555C1HR90BB01#
				±0.25pF	GJM1555C1HR90CB01#
				±0.5pF	GJM1555C1HR90DB01#
			1.0pF	±0.05pF	GJM1555C1H1ROWB01#
				±0.1pF	GJM1555C1H1ROBB01#
				±0.25pF	GJM1555C1H1ROCB01#
				±0.5pF	GJM1555C1H1R1WB01#
			1.1pF	±0.05pF	GJM1555C1H1R1BB01#
				±0.1pF	GJM1555C1H1R1CB01#
				±0.25pF	GJM1555C1H1R1CB01#
				±0.5pF	GJM1555C1H1R2WB01#
			1.2pF	±0.05pF	GJM1555C1H1R2BB01#
				±0.1pF	GJM1555C1H1R2CB01#
				±0.25pF	GJM1555C1H1R2CB01#
				±0.5pF	GJM1555C1H1R3WB01#
			1.3pF	±0.05pF	GJM1555C1H1R3BB01#
				±0.1pF	GJM1555C1H1R3CB01#
				±0.25pF	GJM1555C1H1R3CB01#
				±0.5pF	GJM1555C1H1R4WB01#
			1.4pF	±0.05pF	GJM1555C1H1R4BB01#
				±0.1pF	GJM1555C1H1R4CB01#
				±0.25pF	GJM1555C1H1R4CB01#
				±0.5pF	GJM1555C1H1R5WB01#
			1.5pF	±0.05pF	GJM1555C1H1R5BB01#
				±0.1pF	GJM1555C1H1R5CB01#
				±0.25pF	GJM1555C1H1R5CB01#
				±0.5pF	GJM1555C1H1R6WB01#
			1.6pF	±0.05pF	GJM1555C1H1R6BB01#
				±0.1pF	GJM1555C1H1R6CB01#
				±0.25pF	GJM1555C1H1R6CB01#
				±0.5pF	GJM1555C1H1R7WB01#
			1.7pF	±0.05pF	GJM1555C1H1R7BB01#
				±0.1pF	GJM1555C1H1R7CB01#
				±0.25pF	GJM1555C1H1R7CB01#
				±0.5pF	GJM1555C1H1R8WB01#
			1.8pF	±0.05pF	GJM1555C1H1R8BB01#
				±0.1pF	GJM1555C1H1R8CB01#
				±0.25pF	GJM1555C1H1R8CB01#
				±0.5pF	GJM1555C1H1R9WB01#
			1.9pF	±0.05pF	GJM1555C1H1R9BB01#
				±0.1pF	GJM1555C1H1R9CB01#
				±0.25pF	GJM1555C1H1R9CB01#
				±0.5pF	GJM1555C1H2ROWB01#
			2.0pF	±0.05pF	GJM1555C1H2ROBB01#
				±0.1pF	GJM1555C1H2ROCB01#
				±0.25pF	GJM1555C1H2ROCB01#
				±0.5pF	GJM1555C1H2R1WB01#
			2.1pF	±0.05pF	GJM1555C1H2R1BB01#
				±0.1pF	GJM1555C1H2R1CB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	2.1pF	±0.1pF	GJM1555C1H2R1BB01#	0.55mm	50Vdc	COG	3.9pF	±0.1pF	GJM1555C1H3R9BB01#
				±0.25pF	GJM1555C1H2R1CB01#					±0.25pF	GJM1555C1H3R9CB01#
			2.2pF	±0.05pF	GJM1555C1H2R2WB01#			4.0pF	±0.05pF	GJM1555C1H4R0WB01#	
				±0.1pF	GJM1555C1H2R2BB01#				±0.1pF	GJM1555C1H4R0BB01#	
				±0.25pF	GJM1555C1H2R2CB01#				±0.25pF	GJM1555C1H4R0CB01#	
			2.3pF	±0.05pF	GJM1555C1H2R3WB01#			4.1pF	±0.05pF	GJM1555C1H4R1WB01#	
				±0.1pF	GJM1555C1H2R3BB01#				±0.1pF	GJM1555C1H4R1BB01#	
				±0.25pF	GJM1555C1H2R3CB01#				±0.25pF	GJM1555C1H4R1CB01#	
			2.4pF	±0.05pF	GJM1555C1H2R4WB01#			4.2pF	±0.05pF	GJM1555C1H4R2WB01#	
				±0.1pF	GJM1555C1H2R4BB01#				±0.1pF	GJM1555C1H4R2BB01#	
				±0.25pF	GJM1555C1H2R4CB01#				±0.25pF	GJM1555C1H4R2CB01#	
			2.5pF	±0.05pF	GJM1555C1H2R5WB01#			4.3pF	±0.05pF	GJM1555C1H4R3WB01#	
				±0.1pF	GJM1555C1H2R5BB01#				±0.1pF	GJM1555C1H4R3BB01#	
				±0.25pF	GJM1555C1H2R5CB01#				±0.25pF	GJM1555C1H4R3CB01#	
			2.6pF	±0.05pF	GJM1555C1H2R6WB01#			4.4pF	±0.05pF	GJM1555C1H4R4WB01#	
				±0.1pF	GJM1555C1H2R6BB01#				±0.1pF	GJM1555C1H4R4BB01#	
				±0.25pF	GJM1555C1H2R6CB01#				±0.25pF	GJM1555C1H4R4CB01#	
			2.7pF	±0.05pF	GJM1555C1H2R7WB01#			4.5pF	±0.05pF	GJM1555C1H4R5WB01#	
				±0.1pF	GJM1555C1H2R7BB01#				±0.1pF	GJM1555C1H4R5BB01#	
				±0.25pF	GJM1555C1H2R7CB01#				±0.25pF	GJM1555C1H4R5CB01#	
			2.8pF	±0.05pF	GJM1555C1H2R8WB01#			4.6pF	±0.05pF	GJM1555C1H4R6WB01#	
				±0.1pF	GJM1555C1H2R8BB01#				±0.1pF	GJM1555C1H4R6BB01#	
				±0.25pF	GJM1555C1H2R8CB01#				±0.25pF	GJM1555C1H4R6CB01#	
			2.9pF	±0.05pF	GJM1555C1H2R9WB01#			4.7pF	±0.05pF	GJM1555C1H4R7WB01#	
				±0.1pF	GJM1555C1H2R9BB01#				±0.1pF	GJM1555C1H4R7BB01#	
				±0.25pF	GJM1555C1H2R9CB01#				±0.25pF	GJM1555C1H4R7CB01#	
			3.0pF	±0.05pF	GJM1555C1H3R0WB01#			4.8pF	±0.05pF	GJM1555C1H4R8WB01#	
				±0.1pF	GJM1555C1H3R0BB01#				±0.1pF	GJM1555C1H4R8BB01#	
				±0.25pF	GJM1555C1H3R0CB01#				±0.25pF	GJM1555C1H4R8CB01#	
			3.1pF	±0.05pF	GJM1555C1H3R1WB01#			4.9pF	±0.05pF	GJM1555C1H4R9WB01#	
				±0.1pF	GJM1555C1H3R1BB01#				±0.1pF	GJM1555C1H4R9BB01#	
				±0.25pF	GJM1555C1H3R1CB01#				±0.25pF	GJM1555C1H4R9CB01#	
			3.2pF	±0.05pF	GJM1555C1H3R2WB01#			5.0pF	±0.05pF	GJM1555C1H5R0WB01#	
				±0.1pF	GJM1555C1H3R2BB01#				±0.1pF	GJM1555C1H5R0BB01#	
				±0.25pF	GJM1555C1H3R2CB01#				±0.25pF	GJM1555C1H5R0CB01#	
			3.3pF	±0.05pF	GJM1555C1H3R3WB01#			5.1pF	±0.05pF	GJM1555C1H5R1WB01#	
				±0.1pF	GJM1555C1H3R3BB01#				±0.1pF	GJM1555C1H5R1BB01#	
				±0.25pF	GJM1555C1H3R3CB01#				±0.25pF	GJM1555C1H5R1CB01#	
			3.4pF	±0.05pF	GJM1555C1H3R4WB01#			5.2pF	±0.05pF	GJM1555C1H5R2WB01#	
				±0.1pF	GJM1555C1H3R4BB01#				±0.1pF	GJM1555C1H5R2BB01#	
				±0.25pF	GJM1555C1H3R4CB01#				±0.25pF	GJM1555C1H5R2CB01#	
			3.5pF	±0.05pF	GJM1555C1H3R5WB01#			5.3pF	±0.05pF	GJM1555C1H5R3WB01#	
				±0.1pF	GJM1555C1H3R5BB01#				±0.1pF	GJM1555C1H5R3BB01#	
				±0.25pF	GJM1555C1H3R5CB01#				±0.25pF	GJM1555C1H5R3CB01#	
			3.6pF	±0.05pF	GJM1555C1H3R6WB01#			5.4pF	±0.05pF	GJM1555C1H5R4WB01#	
				±0.1pF	GJM1555C1H3R6BB01#				±0.1pF	GJM1555C1H5R4BB01#	
				±0.25pF	GJM1555C1H3R6CB01#				±0.25pF	GJM1555C1H5R4CB01#	
			3.7pF	±0.05pF	GJM1555C1H3R7WB01#			5.5pF	±0.05pF	GJM1555C1H5R5WB01#	
				±0.1pF	GJM1555C1H3R7BB01#				±0.1pF	GJM1555C1H5R5BB01#	
				±0.25pF	GJM1555C1H3R7CB01#				±0.25pF	GJM1555C1H5R5CB01#	
			3.8pF	±0.05pF	GJM1555C1H3R8WB01#						
				±0.1pF	GJM1555C1H3R8BB01#						
				±0.25pF	GJM1555C1H3R8CB01#						
			3.9pF	±0.05pF	GJM1555C1H3R9WB01#						

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	5.5pF	±0.5pF	GJM1555C1H5R5DB01#	0.55mm	50Vdc	COG	6.9pF	±0.1pF	GJM1555C1H6R9BB01#
			5.6pF	±0.05pF	GJM1555C1H5R6WB01#				±0.25pF	GJM1555C1H6R9CB01#	
				±0.1pF	GJM1555C1H5R6BB01#				±0.5pF	GJM1555C1H6R9DB01#	
				±0.25pF	GJM1555C1H5R6CB01#				7.0pF	±0.05pF	GJM1555C1H7R0WB01#
				±0.5pF	GJM1555C1H5R6DB01#					±0.1pF	GJM1555C1H7R0BB01#
			5.7pF	±0.05pF	GJM1555C1H5R7WB01#				±0.25pF	GJM1555C1H7R0CB01#	
				±0.1pF	GJM1555C1H5R7BB01#				±0.5pF	GJM1555C1H7R0DB01#	
				±0.25pF	GJM1555C1H5R7CB01#				7.1pF	±0.05pF	GJM1555C1H7R1WB01#
				±0.5pF	GJM1555C1H5R7DB01#					±0.1pF	GJM1555C1H7R1BB01#
			5.8pF	±0.05pF	GJM1555C1H5R8WB01#				±0.25pF	GJM1555C1H7R1CB01#	
				±0.1pF	GJM1555C1H5R8BB01#				±0.5pF	GJM1555C1H7R1DB01#	
				±0.25pF	GJM1555C1H5R8CB01#				7.2pF	±0.05pF	GJM1555C1H7R2WB01#
				±0.5pF	GJM1555C1H5R8DB01#					±0.1pF	GJM1555C1H7R2BB01#
			5.9pF	±0.05pF	GJM1555C1H5R9WB01#				±0.25pF	GJM1555C1H7R2CB01#	
				±0.1pF	GJM1555C1H5R9BB01#				±0.5pF	GJM1555C1H7R2DB01#	
				±0.25pF	GJM1555C1H5R9CB01#				7.3pF	±0.05pF	GJM1555C1H7R3WB01#
				±0.5pF	GJM1555C1H5R9DB01#					±0.1pF	GJM1555C1H7R3BB01#
			6.0pF	±0.05pF	GJM1555C1H6R0WB01#				±0.25pF	GJM1555C1H7R3CB01#	
				±0.1pF	GJM1555C1H6R0BB01#				±0.5pF	GJM1555C1H7R3DB01#	
				±0.25pF	GJM1555C1H6R0CB01#				7.4pF	±0.05pF	GJM1555C1H7R4WB01#
				±0.5pF	GJM1555C1H6R0DB01#					±0.1pF	GJM1555C1H7R4BB01#
			6.1pF	±0.05pF	GJM1555C1H6R1WB01#				±0.25pF	GJM1555C1H7R4CB01#	
				±0.1pF	GJM1555C1H6R1BB01#				±0.5pF	GJM1555C1H7R4DB01#	
				±0.25pF	GJM1555C1H6R1CB01#				7.5pF	±0.05pF	GJM1555C1H7R5WB01#
				±0.5pF	GJM1555C1H6R1DB01#					±0.1pF	GJM1555C1H7R5BB01#
			6.2pF	±0.05pF	GJM1555C1H6R2WB01#				±0.25pF	GJM1555C1H7R5CB01#	
				±0.1pF	GJM1555C1H6R2BB01#				±0.5pF	GJM1555C1H7R5DB01#	
				±0.25pF	GJM1555C1H6R2CB01#				7.6pF	±0.05pF	GJM1555C1H7R6WB01#
				±0.5pF	GJM1555C1H6R2DB01#					±0.1pF	GJM1555C1H7R6BB01#
			6.3pF	±0.05pF	GJM1555C1H6R3WB01#				±0.25pF	GJM1555C1H7R6CB01#	
				±0.1pF	GJM1555C1H6R3BB01#				±0.5pF	GJM1555C1H7R6DB01#	
				±0.25pF	GJM1555C1H6R3CB01#				7.7pF	±0.05pF	GJM1555C1H7R7WB01#
				±0.5pF	GJM1555C1H6R3DB01#					±0.1pF	GJM1555C1H7R7BB01#
			6.4pF	±0.05pF	GJM1555C1H6R4WB01#				±0.25pF	GJM1555C1H7R7CB01#	
				±0.1pF	GJM1555C1H6R4BB01#				±0.5pF	GJM1555C1H7R7DB01#	
				±0.25pF	GJM1555C1H6R4CB01#				7.8pF	±0.05pF	GJM1555C1H7R8WB01#
				±0.5pF	GJM1555C1H6R4DB01#					±0.1pF	GJM1555C1H7R8BB01#
			6.5pF	±0.05pF	GJM1555C1H6R5WB01#				±0.25pF	GJM1555C1H7R8CB01#	
				±0.1pF	GJM1555C1H6R5BB01#				±0.5pF	GJM1555C1H7R8DB01#	
				±0.25pF	GJM1555C1H6R5CB01#				7.9pF	±0.05pF	GJM1555C1H7R9WB01#
				±0.5pF	GJM1555C1H6R5DB01#					±0.1pF	GJM1555C1H7R9BB01#
			6.6pF	±0.05pF	GJM1555C1H6R6WB01#				±0.25pF	GJM1555C1H7R9CB01#	
				±0.1pF	GJM1555C1H6R6BB01#				±0.5pF	GJM1555C1H7R9DB01#	
				±0.25pF	GJM1555C1H6R6CB01#				8.0pF	±0.05pF	GJM1555C1H8R0WB01#
				±0.5pF	GJM1555C1H6R6DB01#					±0.1pF	GJM1555C1H8R0BB01#
			6.7pF	±0.05pF	GJM1555C1H6R7WB01#				±0.25pF	GJM1555C1H8R0CB01#	
				±0.1pF	GJM1555C1H6R7BB01#				±0.5pF	GJM1555C1H8R0DB01#	
				±0.25pF	GJM1555C1H6R7CB01#				8.1pF	±0.05pF	GJM1555C1H8R1WB01#
				±0.5pF	GJM1555C1H6R7DB01#					±0.1pF	GJM1555C1H8R1BB01#
			6.8pF	±0.05pF	GJM1555C1H6R8WB01#				±0.25pF	GJM1555C1H8R1CB01#	
				±0.1pF	GJM1555C1H6R8BB01#				±0.5pF	GJM1555C1H8R1DB01#	
				±0.25pF	GJM1555C1H6R8CB01#				8.2pF	±0.05pF	GJM1555C1H8R2WB01#
				±0.5pF	GJM1555C1H6R8DB01#					±0.1pF	GJM1555C1H8R2BB01#
			6.9pF	±0.05pF	GJM1555C1H6R9WB01#				±0.25pF	GJM1555C1H8R2CB01#	

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	8.2pF	±0.5pF	GJM1555C1H8R2DB01#	0.55mm	50Vdc	COG	9.6pF	±0.1pF	GJM1555C1H9R6BB01#
			8.3pF	±0.05pF	GJM1555C1H8R3WB01#				±0.25pF	GJM1555C1H9R6CB01#	
				±0.1pF	GJM1555C1H8R3BB01#				±0.5pF	GJM1555C1H9R6DB01#	
				±0.25pF	GJM1555C1H8R3CB01#				±0.05pF	GJM1555C1H9R7WB01#	
				±0.5pF	GJM1555C1H8R3DB01#				±0.1pF	GJM1555C1H9R7BB01#	
			8.4pF	±0.05pF	GJM1555C1H8R4WB01#				±0.25pF	GJM1555C1H9R7CB01#	
				±0.1pF	GJM1555C1H8R4BB01#				±0.5pF	GJM1555C1H9R7DB01#	
				±0.25pF	GJM1555C1H8R4CB01#				±0.05pF	GJM1555C1H9R8WB01#	
				±0.5pF	GJM1555C1H8R4DB01#				±0.1pF	GJM1555C1H9R8BB01#	
			8.5pF	±0.05pF	GJM1555C1H8R5WB01#				±0.25pF	GJM1555C1H9R8CB01#	
				±0.1pF	GJM1555C1H8R5BB01#				±0.5pF	GJM1555C1H9R8DB01#	
				±0.25pF	GJM1555C1H8R5CB01#				±0.05pF	GJM1555C1H9R9WB01#	
				±0.5pF	GJM1555C1H8R5DB01#				±0.1pF	GJM1555C1H9R9BB01#	
			8.6pF	±0.05pF	GJM1555C1H8R6WB01#				±0.25pF	GJM1555C1H9R9CB01#	
				±0.1pF	GJM1555C1H8R6BB01#				±0.5pF	GJM1555C1H9R9DB01#	
				±0.25pF	GJM1555C1H8R6CB01#				±2%	GJM1555C1H100GB01#	
				±0.5pF	GJM1555C1H8R6DB01#				±5%	GJM1555C1H100JB01#	
			8.7pF	±0.05pF	GJM1555C1H8R7WB01#				±2%	GJM1555C1H110GB01#	
				±0.1pF	GJM1555C1H8R7BB01#				±5%	GJM1555C1H110JB01#	
				±0.25pF	GJM1555C1H8R7CB01#				±2%	GJM1555C1H120GB01#	
				±0.5pF	GJM1555C1H8R7DB01#				±5%	GJM1555C1H120JB01#	
			8.8pF	±0.05pF	GJM1555C1H8R8WB01#				±2%	GJM1555C1H130GB01#	
				±0.1pF	GJM1555C1H8R8BB01#				±5%	GJM1555C1H130JB01#	
				±0.25pF	GJM1555C1H8R8CB01#				±2%	GJM1555C1H150GB01#	
				±0.5pF	GJM1555C1H8R8DB01#				±5%	GJM1555C1H150JB01#	
			8.9pF	±0.05pF	GJM1555C1H8R9WB01#				±2%	GJM1555C1H160GB01#	
				±0.1pF	GJM1555C1H8R9BB01#				±5%	GJM1555C1H160JB01#	
				±0.25pF	GJM1555C1H8R9CB01#				±2%	GJM1555C1H180GB01#	
				±0.5pF	GJM1555C1H8R9DB01#				±5%	GJM1555C1H180JB01#	
			9.0pF	±0.05pF	GJM1555C1H9R0WB01#				±2%	GJM1555C1H200GB01#	
				±0.1pF	GJM1555C1H9R0BB01#				±5%	GJM1555C1H200JB01#	
				±0.25pF	GJM1555C1H9R0CB01#				±1%	GJM1555C1H220FB01#	
				±0.5pF	GJM1555C1H9R0DB01#				±2%	GJM1555C1H220GB01#	
			9.1pF	±0.05pF	GJM1555C1H9R1WB01#				±5%	GJM1555C1H220JB01#	
				±0.1pF	GJM1555C1H9R1BB01#				±1%	GJM1555C1H240FB01#	
				±0.25pF	GJM1555C1H9R1CB01#				±2%	GJM1555C1H240GB01#	
				±0.5pF	GJM1555C1H9R1DB01#				±5%	GJM1555C1H240JB01#	
			9.2pF	±0.05pF	GJM1555C1H9R2WB01#				±1%	GJM1555C1H270FB01#	
				±0.1pF	GJM1555C1H9R2BB01#				±2%	GJM1555C1H270GB01#	
				±0.25pF	GJM1555C1H9R2CB01#				±5%	GJM1555C1H270JB01#	
				±0.5pF	GJM1555C1H9R2DB01#				±1%	GJM1555C1H300FB01#	
			9.3pF	±0.05pF	GJM1555C1H9R3WB01#				±2%	GJM1555C1H300GB01#	
				±0.1pF	GJM1555C1H9R3BB01#				±5%	GJM1555C1H300JB01#	
				±0.25pF	GJM1555C1H9R3CB01#				±1%	GJM1555C1H330FB01#	
				±0.5pF	GJM1555C1H9R3DB01#				±2%	GJM1555C1H330GB01#	
			9.4pF	±0.05pF	GJM1555C1H9R4WB01#				±5%	GJM1555C1H330JB01#	
				±0.1pF	GJM1555C1H9R4BB01#				±1%	GJM1555C1H360FB01#	
				±0.25pF	GJM1555C1H9R4CB01#				±2%	GJM1555C1H360GB01#	
				±0.5pF	GJM1555C1H9R4DB01#				±5%	GJM1555C1H360JB01#	
			9.5pF	±0.05pF	GJM1555C1H9R5WB01#				±1%	GJM1555C1H390FB01#	
				±0.1pF	GJM1555C1H9R5BB01#				±2%	GJM1555C1H390GB01#	
				±0.25pF	GJM1555C1H9R5CB01#				±5%	GJM1555C1H390JB01#	
				±0.5pF	GJM1555C1H9R5DB01#				±1%	GJM1555C1H430FB01#	
			9.6pF	±0.05pF	GJM1555C1H9R6WB01#				±2%	GJM1555C1H430GB01#	

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	43pF	±5%	GJM1555C1H430JB01#	0.55mm	50Vdc	CK	2.0pF	±0.25pF	GJM1554C1H2R0CB01#
			47pF	±1%	GJM1555C1H470FB01#				2.1pF	±0.05pF	GJM1553C1H2R1WB01#
				±2%	GJM1555C1H470GB01#					±0.1pF	GJM1553C1H2R1BB01#
				±5%	GJM1555C1H470JB01#					±0.25pF	GJM1553C1H2R1CB01#
		CK	0.10pF	±0.05pF	GJM1554C1HR10WB01#			CJ	2.2pF	±0.05pF	GJM1553C1H2R2WB01#
				±0.1pF	GJM1554C1HR10BB01#					±0.1pF	GJM1553C1H2R2BB01#
			0.20pF	±0.05pF	GJM1554C1HR20WB01#					±0.25pF	GJM1553C1H2R2CB01#
				±0.1pF	GJM1554C1HR20BB01#					±0.05pF	GJM1553C1H2R3WB01#
			0.30pF	±0.05pF	GJM1554C1HR30WB01#					±0.1pF	GJM1553C1H2R3BB01#
				±0.1pF	GJM1554C1HR30BB01#					±0.25pF	GJM1553C1H2R3CB01#
			0.40pF	±0.05pF	GJM1554C1HR40WB01#					±0.05pF	GJM1553C1H2R4WB01#
				±0.1pF	GJM1554C1HR40BB01#					±0.1pF	GJM1553C1H2R4BB01#
			0.50pF	±0.05pF	GJM1554C1HR50WB01#					±0.25pF	GJM1553C1H2R4CB01#
				±0.1pF	GJM1554C1HR50BB01#					±0.05pF	GJM1553C1H2R5WB01#
			0.60pF	±0.05pF	GJM1554C1HR60WB01#					±0.1pF	GJM1553C1H2R5BB01#
				±0.1pF	GJM1554C1HR60BB01#					±0.25pF	GJM1553C1H2R5CB01#
			0.70pF	±0.05pF	GJM1554C1HR70WB01#					±0.05pF	GJM1553C1H2R6WB01#
				±0.1pF	GJM1554C1HR70BB01#					±0.1pF	GJM1553C1H2R6BB01#
			0.80pF	±0.05pF	GJM1554C1HR80WB01#					±0.25pF	GJM1553C1H2R6CB01#
				±0.1pF	GJM1554C1HR80BB01#					±0.05pF	GJM1553C1H2R7WB01#
			0.90pF	±0.05pF	GJM1554C1HR90WB01#					±0.1pF	GJM1553C1H2R7BB01#
				±0.1pF	GJM1554C1HR90BB01#					±0.25pF	GJM1553C1H2R7CB01#
			1.0pF	±0.05pF	GJM1554C1H1R0WB01#					±0.05pF	GJM1553C1H2R8WB01#
				±0.1pF	GJM1554C1H1R0BB01#					±0.1pF	GJM1553C1H2R8BB01#
				±0.25pF	GJM1554C1H1R0CB01#					±0.25pF	GJM1553C1H2R8CB01#
		1.1pF	±0.05pF	GJM1554C1H1R1WB01#					±0.05pF	GJM1553C1H2R9WB01#	
				±0.1pF	GJM1554C1H1R1BB01#					±0.1pF	GJM1553C1H2R9BB01#
				±0.25pF	GJM1554C1H1R1CB01#					±0.25pF	GJM1553C1H2R9CB01#
		1.2pF	±0.05pF	GJM1554C1H1R2WB01#					±0.05pF	GJM1553C1H3R0WB01#	
				±0.1pF	GJM1554C1H1R2BB01#					±0.1pF	GJM1553C1H3R0BB01#
				±0.25pF	GJM1554C1H1R2CB01#					±0.25pF	GJM1553C1H3R0CB01#
		1.3pF	±0.05pF	GJM1554C1H1R3WB01#					±0.05pF	GJM1553C1H3R1WB01#	
				±0.1pF	GJM1554C1H1R3BB01#					±0.1pF	GJM1553C1H3R1BB01#
				±0.25pF	GJM1554C1H1R3CB01#					±0.25pF	GJM1553C1H3R1CB01#
		1.4pF	±0.05pF	GJM1554C1H1R4WB01#					±0.05pF	GJM1553C1H3R2WB01#	
				±0.1pF	GJM1554C1H1R4BB01#					±0.1pF	GJM1553C1H3R2BB01#
				±0.25pF	GJM1554C1H1R4CB01#					±0.25pF	GJM1553C1H3R2CB01#
		1.5pF	±0.05pF	GJM1554C1H1R5WB01#					±0.1pF	GJM1553C1H3R3BB01#	
				±0.1pF	GJM1554C1H1R5BB01#					±0.25pF	GJM1553C1H3R3CB01#
				±0.25pF	GJM1554C1H1R5CB01#					±0.05pF	GJM1553C1H3R4WB01#
		1.6pF	±0.05pF	GJM1554C1H1R6WB01#					±0.1pF	GJM1553C1H3R4BB01#	
				±0.1pF	GJM1554C1H1R6BB01#					±0.25pF	GJM1553C1H3R4CB01#
				±0.25pF	GJM1554C1H1R6CB01#					±0.05pF	GJM1553C1H3R5WB01#
		1.7pF	±0.05pF	GJM1554C1H1R7WB01#					±0.1pF	GJM1553C1H3R5BB01#	
				±0.1pF	GJM1554C1H1R7BB01#					±0.25pF	GJM1553C1H3R5CB01#
				±0.25pF	GJM1554C1H1R7CB01#					±0.05pF	GJM1553C1H3R6WB01#
		1.8pF	±0.05pF	GJM1554C1H1R8WB01#					±0.1pF	GJM1553C1H3R6BB01#	
				±0.1pF	GJM1554C1H1R8BB01#					±0.25pF	GJM1553C1H3R6CB01#
				±0.25pF	GJM1554C1H1R8CB01#					±0.05pF	GJM1553C1H3R7WB01#
		1.9pF	±0.05pF	GJM1554C1H1R9WB01#					±0.1pF	GJM1553C1H3R7BB01#	
				±0.1pF	GJM1554C1H1R9BB01#					±0.25pF	GJM1553C1H3R7CB01#
				±0.25pF	GJM1554C1H1R9CB01#					±0.05pF	GJM1553C1H3R8WB01#
		2.0pF	±0.05pF	GJM1554C1H2R0WB01#					±0.1pF	GJM1553C1H3R8BB01#	
				±0.1pF	GJM1554C1H2R0BB01#					±0.25pF	GJM1553C1H3R8CB01#

Part number # indicates the package specification code.



## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CJ	3.8pF	±0.25pF	GJM1553C1H3R8CB01#
			3.9pF	±0.05pF	GJM1553C1H3R9WB01#
				±0.1pF	GJM1553C1H3R9BB01#
				±0.25pF	GJM1553C1H3R9CB01#
		CH	4.0pF	±0.05pF	GJM1552C1H4R0WB01#
				±0.1pF	GJM1552C1H4R0BB01#
				±0.25pF	GJM1552C1H4R0CB01#
			4.1pF	±0.05pF	GJM1552C1H4R1WB01#
				±0.1pF	GJM1552C1H4R1BB01#
				±0.25pF	GJM1552C1H4R1CB01#
			4.2pF	±0.05pF	GJM1552C1H4R2WB01#
				±0.1pF	GJM1552C1H4R2BB01#
				±0.25pF	GJM1552C1H4R2CB01#
			4.3pF	±0.05pF	GJM1552C1H4R3WB01#
				±0.1pF	GJM1552C1H4R3BB01#
				±0.25pF	GJM1552C1H4R3CB01#
			4.4pF	±0.05pF	GJM1552C1H4R4WB01#
				±0.1pF	GJM1552C1H4R4BB01#
				±0.25pF	GJM1552C1H4R4CB01#
			4.5pF	±0.05pF	GJM1552C1H4R5WB01#
				±0.1pF	GJM1552C1H4R5BB01#
				±0.25pF	GJM1552C1H4R5CB01#
		4.6pF	±0.05pF	GJM1552C1H4R6WB01#	
				±0.1pF	GJM1552C1H4R6BB01#
				±0.25pF	GJM1552C1H4R6CB01#
			4.7pF	±0.05pF	GJM1552C1H4R7WB01#
				±0.1pF	GJM1552C1H4R7BB01#
				±0.25pF	GJM1552C1H4R7CB01#
			4.8pF	±0.05pF	GJM1552C1H4R8WB01#
				±0.1pF	GJM1552C1H4R8BB01#
				±0.25pF	GJM1552C1H4R8CB01#
			4.9pF	±0.05pF	GJM1552C1H4R9WB01#
		5.0pF		±0.1pF	GJM1552C1H4R9BB01#
				±0.25pF	GJM1552C1H4R9CB01#
			5.1pF	±0.05pF	GJM1552C1H5R0WB01#
				±0.1pF	GJM1552C1H5R0BB01#
				±0.25pF	GJM1552C1H5R0CB01#
			5.2pF	±0.05pF	GJM1552C1H5R2WB01#
				±0.1pF	GJM1552C1H5R2BB01#
				±0.25pF	GJM1552C1H5R2CB01#
				±0.5pF	GJM1552C1H5R2DB01#
		5.3pF	±0.05pF	GJM1552C1H5R3WB01#	
				±0.1pF	GJM1552C1H5R3BB01#
				±0.25pF	GJM1552C1H5R3CB01#
				±0.5pF	GJM1552C1H5R3DB01#
			5.4pF	±0.05pF	GJM1552C1H5R4WB01#
		5.5pF		±0.1pF	GJM1552C1H5R4BB01#
				±0.25pF	GJM1552C1H5R4CB01#
				±0.5pF	GJM1552C1H5R4DB01#
			5.5pF	±0.05pF	GJM1552C1H5R5WB01#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	5.5pF	±0.1pF	GJM1552C1H5R5WB01#
				±0.25pF	GJM1552C1H5R5CB01#
				±0.5pF	GJM1552C1H5R5DB01#
		5.6pF	±0.05pF	GJM1552C1H5R6WB01#	
				±0.1pF	GJM1552C1H5R6BB01#
				±0.25pF	GJM1552C1H5R6CB01#
				±0.5pF	GJM1552C1H5R6DB01#
		5.7pF	±0.05pF	GJM1552C1H5R7WB01#	
				±0.1pF	GJM1552C1H5R7BB01#
				±0.25pF	GJM1552C1H5R7CB01#
				±0.5pF	GJM1552C1H5R7DB01#
		5.8pF	±0.05pF	GJM1552C1H5R8WB01#	
				±0.1pF	GJM1552C1H5R8BB01#
				±0.25pF	GJM1552C1H5R8CB01#
				±0.5pF	GJM1552C1H5R8DB01#
		5.9pF	±0.05pF	GJM1552C1H5R9WB01#	
				±0.1pF	GJM1552C1H5R9BB01#
				±0.25pF	GJM1552C1H5R9CB01#
				±0.5pF	GJM1552C1H5R9DB01#
		6.0pF	±0.05pF	GJM1552C1H6R0WB01#	
				±0.1pF	GJM1552C1H6R0BB01#
				±0.25pF	GJM1552C1H6R0CB01#
				±0.5pF	GJM1552C1H6R0DB01#
		6.1pF	±0.05pF	GJM1552C1H6R1WB01#	
				±0.1pF	GJM1552C1H6R1BB01#
				±0.25pF	GJM1552C1H6R1CB01#
				±0.5pF	GJM1552C1H6R1DB01#
		6.2pF	±0.05pF	GJM1552C1H6R2WB01#	
				±0.1pF	GJM1552C1H6R2BB01#
				±0.25pF	GJM1552C1H6R2CB01#
				±0.5pF	GJM1552C1H6R2DB01#
		6.3pF	±0.05pF	GJM1552C1H6R3WB01#	
				±0.1pF	GJM1552C1H6R3BB01#
				±0.25pF	GJM1552C1H6R3CB01#
				±0.5pF	GJM1552C1H6R3DB01#
		6.4pF	±0.05pF	GJM1552C1H6R4WB01#	
				±0.1pF	GJM1552C1H6R4BB01#
				±0.25pF	GJM1552C1H6R4CB01#
				±0.5pF	GJM1552C1H6R4DB01#
		6.5pF	±0.05pF	GJM1552C1H6R5WB01#	
				±0.1pF	GJM1552C1H6R5BB01#
				±0.25pF	GJM1552C1H6R5CB01#
				±0.5pF	GJM1552C1H6R5DB01#
		6.6pF	±0.05pF	GJM1552C1H6R6WB01#	
				±0.1pF	GJM1552C1H6R6BB01#
				±0.25pF	GJM1552C1H6R6CB01#
				±0.5pF	GJM1552C1H6R6DB01#
		6.7pF	±0.05pF	GJM1552C1H6R7WB01#	
				±0.1pF	GJM1552C1H6R7BB01#
				±0.25pF	GJM1552C1H6R7CB01#
				±0.5pF	GJM1552C1H6R7DB01#
		6.8pF	±0.05pF	GJM1552C1H6R8WB01#	
				±0.1pF	GJM1552C1H6R8BB01#
				±0.25pF	GJM1552C1H6R8CB01#

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type High Q Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	6.8pF	±0.5pF	GJM1552C1H6R8DB01#	0.55mm	50Vdc	CH	8.2pF	±0.1pF	GJM1552C1H8R2BB01#
			6.9pF	±0.05pF	GJM1552C1H6R9WB01#				±0.25pF	GJM1552C1H8R2CB01#	
				±0.1pF	GJM1552C1H6R9BB01#				±0.5pF	GJM1552C1H8R2DB01#	
				±0.25pF	GJM1552C1H6R9CB01#				±0.05pF	GJM1552C1H8R3WB01#	
				±0.5pF	GJM1552C1H6R9DB01#				±0.1pF	GJM1552C1H8R3BB01#	
			7.0pF	±0.05pF	GJM1552C1H7R0WB01#				±0.25pF	GJM1552C1H8R3CB01#	
				±0.1pF	GJM1552C1H7R0BB01#				±0.5pF	GJM1552C1H8R3DB01#	
				±0.25pF	GJM1552C1H7R0CB01#				±0.05pF	GJM1552C1H8R4WB01#	
				±0.5pF	GJM1552C1H7R0DB01#				±0.1pF	GJM1552C1H8R4BB01#	
			7.1pF	±0.05pF	GJM1552C1H7R1WB01#				±0.25pF	GJM1552C1H8R4CB01#	
				±0.1pF	GJM1552C1H7R1BB01#				±0.5pF	GJM1552C1H8R4DB01#	
				±0.25pF	GJM1552C1H7R1CB01#				±0.05pF	GJM1552C1H8R5WB01#	
				±0.5pF	GJM1552C1H7R1DB01#				±0.1pF	GJM1552C1H8R5BB01#	
			7.2pF	±0.05pF	GJM1552C1H7R2WB01#				±0.25pF	GJM1552C1H8R5CB01#	
				±0.1pF	GJM1552C1H7R2BB01#				±0.5pF	GJM1552C1H8R5DB01#	
				±0.25pF	GJM1552C1H7R2CB01#				±0.05pF	GJM1552C1H8R6WB01#	
				±0.5pF	GJM1552C1H7R2DB01#				±0.1pF	GJM1552C1H8R6BB01#	
			7.3pF	±0.05pF	GJM1552C1H7R3WB01#				±0.25pF	GJM1552C1H8R6CB01#	
				±0.1pF	GJM1552C1H7R3BB01#				±0.5pF	GJM1552C1H8R6DB01#	
				±0.25pF	GJM1552C1H7R3CB01#				±0.05pF	GJM1552C1H8R7WB01#	
				±0.5pF	GJM1552C1H7R3DB01#				±0.1pF	GJM1552C1H8R7BB01#	
			7.4pF	±0.05pF	GJM1552C1H7R4WB01#				±0.25pF	GJM1552C1H8R7CB01#	
				±0.1pF	GJM1552C1H7R4BB01#				±0.5pF	GJM1552C1H8R7DB01#	
				±0.25pF	GJM1552C1H7R4CB01#				±0.05pF	GJM1552C1H8R8WB01#	
				±0.5pF	GJM1552C1H7R4DB01#				±0.1pF	GJM1552C1H8R8BB01#	
			7.5pF	±0.05pF	GJM1552C1H7R5WB01#				±0.25pF	GJM1552C1H8R8CB01#	
				±0.1pF	GJM1552C1H7R5BB01#				±0.5pF	GJM1552C1H8R8DB01#	
				±0.25pF	GJM1552C1H7R5CB01#				±0.05pF	GJM1552C1H8R9WB01#	
				±0.5pF	GJM1552C1H7R5DB01#				±0.1pF	GJM1552C1H8R9BB01#	
			7.6pF	±0.05pF	GJM1552C1H7R6WB01#				±0.25pF	GJM1552C1H8R9CB01#	
				±0.1pF	GJM1552C1H7R6BB01#				±0.5pF	GJM1552C1H8R9DB01#	
				±0.25pF	GJM1552C1H7R6CB01#				±0.05pF	GJM1552C1H9R0WB01#	
				±0.5pF	GJM1552C1H7R6DB01#				±0.1pF	GJM1552C1H9R0BB01#	
			7.7pF	±0.05pF	GJM1552C1H7R7WB01#				±0.25pF	GJM1552C1H9R0CB01#	
				±0.1pF	GJM1552C1H7R7BB01#				±0.5pF	GJM1552C1H9R0DB01#	
				±0.25pF	GJM1552C1H7R7CB01#				±0.05pF	GJM1552C1H9R1WB01#	
				±0.5pF	GJM1552C1H7R7DB01#				±0.1pF	GJM1552C1H9R1BB01#	
			7.8pF	±0.05pF	GJM1552C1H7R8WB01#				±0.25pF	GJM1552C1H9R1CB01#	
				±0.1pF	GJM1552C1H7R8BB01#				±0.5pF	GJM1552C1H9R1DB01#	
				±0.25pF	GJM1552C1H7R8CB01#				±0.05pF	GJM1552C1H9R2WB01#	
				±0.5pF	GJM1552C1H7R8DB01#				±0.1pF	GJM1552C1H9R2BB01#	
			7.9pF	±0.05pF	GJM1552C1H7R9WB01#				±0.25pF	GJM1552C1H9R2CB01#	
				±0.1pF	GJM1552C1H7R9BB01#				±0.5pF	GJM1552C1H9R2DB01#	
				±0.25pF	GJM1552C1H7R9CB01#				±0.05pF	GJM1552C1H9R3WB01#	
				±0.5pF	GJM1552C1H7R9DB01#				±0.1pF	GJM1552C1H9R3BB01#	
			8.0pF	±0.05pF	GJM1552C1H8R0WB01#				±0.25pF	GJM1552C1H9R3CB01#	
				±0.1pF	GJM1552C1H8R0BB01#				±0.5pF	GJM1552C1H9R3DB01#	
				±0.25pF	GJM1552C1H8R0CB01#				±0.05pF	GJM1552C1H9R4WB01#	
				±0.5pF	GJM1552C1H8R0DB01#				±0.1pF	GJM1552C1H9R4BB01#	
			8.1pF	±0.05pF	GJM1552C1H8R1WB01#				±0.25pF	GJM1552C1H9R4CB01#	
				±0.1pF	GJM1552C1H8R1BB01#				±0.5pF	GJM1552C1H9R4DB01#	
				±0.25pF	GJM1552C1H8R1CB01#				±0.05pF	GJM1552C1H9R5WB01#	
				±0.5pF	GJM1552C1H8R1DB01#				±0.1pF	GJM1552C1H9R5BB01#	
			8.2pF	±0.05pF	GJM1552C1H8R2WB01#				±0.25pF	GJM1552C1H9R5CB01#	

Part number # indicates the package specification code.

## GJM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	9.5pF	±0.5pF	<b>GJM1552C1H9R5DB01#</b>
			9.6pF	±0.05pF	<b>GJM1552C1H9R6WB01#</b>
				±0.1pF	<b>GJM1552C1H9R6BB01#</b>
				±0.25pF	<b>GJM1552C1H9R6CB01#</b>
				±0.5pF	<b>GJM1552C1H9R6DB01#</b>
			9.7pF	±0.05pF	<b>GJM1552C1H9R7WB01#</b>
				±0.1pF	<b>GJM1552C1H9R7BB01#</b>
				±0.25pF	<b>GJM1552C1H9R7CB01#</b>
				±0.5pF	<b>GJM1552C1H9R7DB01#</b>
			9.8pF	±0.05pF	<b>GJM1552C1H9R8WB01#</b>
				±0.1pF	<b>GJM1552C1H9R8BB01#</b>
				±0.25pF	<b>GJM1552C1H9R8CB01#</b>
				±0.5pF	<b>GJM1552C1H9R8DB01#</b>
			9.9pF	±0.05pF	<b>GJM1552C1H9R9WB01#</b>
				±0.1pF	<b>GJM1552C1H9R9BB01#</b>
				±0.25pF	<b>GJM1552C1H9R9CB01#</b>
				±0.5pF	<b>GJM1552C1H9R9DB01#</b>
			10pF	±2%	<b>GJM1552C1H100GB01#</b>
				±5%	<b>GJM1552C1H100JB01#</b>
			11pF	±2%	<b>GJM1552C1H110GB01#</b>
				±5%	<b>GJM1552C1H110JB01#</b>
			12pF	±2%	<b>GJM1552C1H120GB01#</b>
				±5%	<b>GJM1552C1H120JB01#</b>
			13pF	±2%	<b>GJM1552C1H130GB01#</b>
				±5%	<b>GJM1552C1H130JB01#</b>
			15pF	±2%	<b>GJM1552C1H150GB01#</b>
				±5%	<b>GJM1552C1H150JB01#</b>
			16pF	±2%	<b>GJM1552C1H160GB01#</b>
				±5%	<b>GJM1552C1H160JB01#</b>
			18pF	±2%	<b>GJM1552C1H180GB01#</b>
				±5%	<b>GJM1552C1H180JB01#</b>
			20pF	±2%	<b>GJM1552C1H200GB01#</b>
				±5%	<b>GJM1552C1H200JB01#</b>
			22pF	±1%	<b>GJM1552C1H220FB01#</b>
				±2%	<b>GJM1552C1H220GB01#</b>
				±5%	<b>GJM1552C1H220JB01#</b>
			24pF	±1%	<b>GJM1552C1H240FB01#</b>
				±2%	<b>GJM1552C1H240GB01#</b>
				±5%	<b>GJM1552C1H240JB01#</b>
			27pF	±1%	<b>GJM1552C1H270FB01#</b>
				±2%	<b>GJM1552C1H270GB01#</b>
				±5%	<b>GJM1552C1H270JB01#</b>
			30pF	±1%	<b>GJM1552C1H300FB01#</b>
				±2%	<b>GJM1552C1H300GB01#</b>
				±5%	<b>GJM1552C1H300JB01#</b>
			33pF	±1%	<b>GJM1552C1H330FB01#</b>
				±2%	<b>GJM1552C1H330GB01#</b>
				±5%	<b>GJM1552C1H330JB01#</b>
			36pF	±1%	<b>GJM1552C1H360FB01#</b>
				±2%	<b>GJM1552C1H360GB01#</b>
				±5%	<b>GJM1552C1H360JB01#</b>
			39pF	±1%	<b>GJM1552C1H390FB01#</b>
				±2%	<b>GJM1552C1H390GB01#</b>
				±5%	<b>GJM1552C1H390JB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	CH	43pF	±1%	<b>GJM1552C1H430FB01#</b>
				±2%	<b>GJM1552C1H430GB01#</b>
				±5%	<b>GJM1552C1H430JB01#</b>
			47pF	±1%	<b>GJM1552C1H470FB01#</b>
				±2%	<b>GJM1552C1H470GB01#</b>
				±5%	<b>GJM1552C1H470JB01#</b>

Part number # indicates the package specification code.

## Wire bondable vertical electrode Monolithic Ceramic Capacitor

### GMA Series

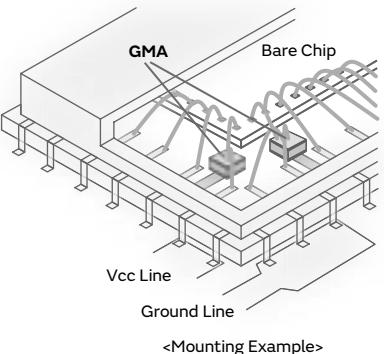
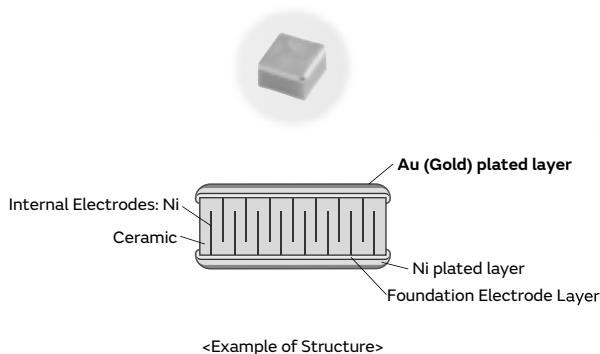


These capacitors are wire bondable for optical transceivers and IC packages, using Au (gold) terminations.

#### Features

##### ① Allows for high density mounting.

Noise can be reduced by eliminating the routing of the wire, and high efficiency can be achieved with a built-in capacitor in a package, such as IC. Miniaturization of the set is also possible.



##### ② Achieved small size and high capacitance with a multilayer structure.

Small size, high capacitance	Minimum 0.38mm×0.38mm Achieved 0.1μF in 0.5mm×0.5mm size
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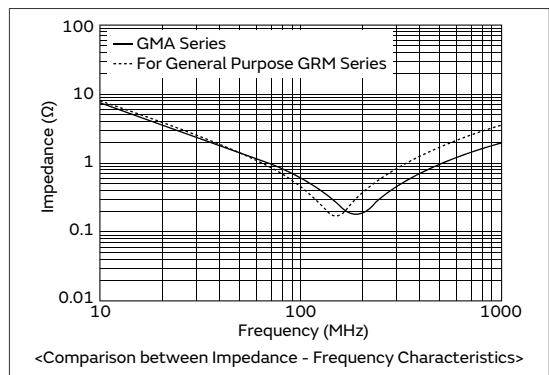
Lineup comparison table with competitor's is provided in my Murata Capacitor Site (need to sign in & approval from the site)

##### ③ Ideal for bypass applications

Especially for optical communication related devices such as TOSA/ROSA.

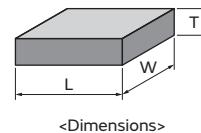
##### ④ Excellent in high frequency characteristics.

Since the capacitor consists of an upper/lower electrode structure, the current path becomes shorter and lowers the ESL. Compared with the general purpose GRM series of the same capacity, the impedance of this product becomes lower at high frequencies.



## Specifications

Size (mm)	0.38×0.38mm to 0.8×0.8mm
Rated Voltage	6.3Vdc to 100Vdc
Capacitance	100pF to 0.47μF
Main Applications	1. Optical communication related devices such as TOSA/ROSA. 2. Various device related, such as GaAsIC (mounted in IC packages) 3. Measuring instruments, other ultra compact/thin devices



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## GMA Series High Dielectric Constant Type **Bonding** Part Number List

### 0.38×0.38mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.35mm	10Vdc	X7R	1000pF	±20%	GMA0D3R71A102MA01#	
			1500pF	±20%	GMA0D3R71A152MA01#	
			1800pF	±20%	GMA0D3R71A182MA01#	
			10000pF	±20%	GMA0D3R71A103MA01#	
		R	1000pF	±20%	GMA0D3R11A102MA01#	
			1500pF	±20%	GMA0D3R11A152MA01#	
			1800pF	±20%	GMA0D3R11A182MA01#	
			10000pF	±20%	GMA0D3R11A103MA01#	
		B	1000pF	±20%	GMA0D3B11A102MA01#	
			1500pF	±20%	GMA0D3B11A152MA01#	
			1800pF	±20%	GMA0D3B11A182MA01#	

### 0.5×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.4mm	100Vdc	X7R	100pF	±20%	GMA05XR72A101MA01#	
			150pF	±20%	GMA05XR72A151MA01#	
			220pF	±20%	GMA05XR72A221MA01#	
			330pF	±20%	GMA05XR72A331MA01#	
			470pF	±20%	GMA05XR72A471MA01#	
			680pF	±20%	GMA05XR72A681MA01#	
			1000pF	±20%	GMA05XR72A102MA01#	
		X7R	1500pF	±20%	GMA05XR71E152MA11#	
			2200pF	±20%	GMA05XR71E222MA11#	
			3300pF	±20%	GMA05XR71E332MA11#	
			4700pF	±20%	GMA05XR71E472MA11#	
		B	1500pF	±20%	GMA05XB31E152MA11#	
			2200pF	±20%	GMA05XB31E222MA11#	
			3300pF	±20%	GMA05XB31E332MA11#	
			4700pF	±20%	GMA05XB31E472MA11#	
		X7R	6800pF	±20%	GMA05XR71A682MA01#	
			10000pF	±20%	GMA05XR71A103MA01#	
			15000pF	±20%	GMA05XR71A153MA01#	
			22000pF	±20%	GMA05XR71A223MA01#	
		R	6800pF	±20%	GMA05XR11A682MA01#	
			10000pF	±20%	GMA05XR11A103MA01#	
			15000pF	±20%	GMA05XR11A153MA01#	
			22000pF	±20%	GMA05XR11A223MA01#	
		B	6800pF	±20%	GMA05XB11A682MA01#	
			10000pF	±20%	GMA05XB11A103MA01#	
			15000pF	±20%	GMA05XB11A153MA01#	
			22000pF	±20%	GMA05XB11A223MA01#	
		X5R	0.10µF	±20%	GMA05XR60J104ME12#	
			0.10µF	±20%	GMA05XB30J104ME12#	

### 0.8×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.6mm	100Vdc	X7R	1500pF	±20%	GMA085R72A152MA01#	
			2200pF	±20%	GMA085R72A222MA01#	

Part number # indicates the package specification code.

## Wire bondable/AuSn solderable Monolithic Ceramic Capacitor

### GMD Series

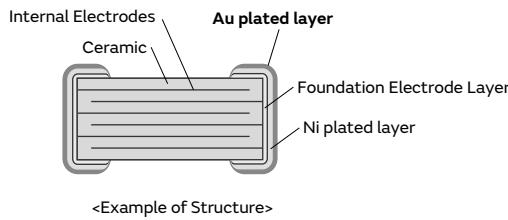


This capacitor is compatible to wire bonding mounting by the external electrodes of Au plating.

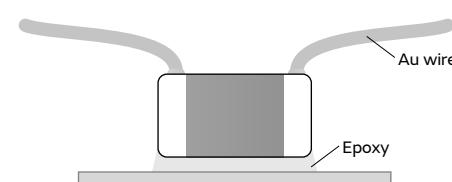
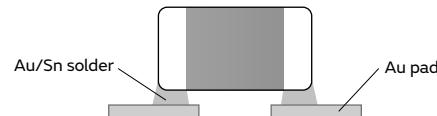
#### Features

##### 1 Can be mounted by wire bonding and AuSn soldering.

Since the external electrodes are based on the Au plating specification, mounting by wire/die bonding is possible.



<Example of Structure>



<Mounting Example>

##### 2 Ideal for mounting in packages, such as optical communication related devices, IC and etc.

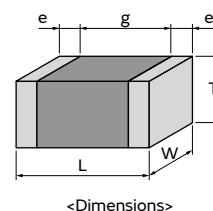
Noise can be reduced by eliminating the routing of the wire, and high efficiency can be achieved with a built-in capacitor in the package, such as TO-CAN, IC and etc. by wire bonding mounting.

##### 3 Contributes to the miniaturization of the set.

Murata offers a lineup of small size products, such as the 0603 (0201) and 1005 (0402) in mm (inch).

#### Specifications

Size (mm)	0.6×0.3mm to 1.0×0.5mm
Rated Voltage	6.3Vdc to 50Vdc
Capacitance	100pF to 1.0μF
Main Applications	Various device related, such as GaAsIC (mounted in IC packages)



<Dimensions>

This catalog contains only a portion of the product lineup.

Please refer to the capacitor search tool on the Murata Web site for details.

## GMD Series High Dielectric Constant Type Part Number List

0.6×0.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.33mm	25Vdc	X7R	100pF	±10%	GMD033R71E101KA01#	
			120pF	±10%	GMD033R71E121KA01#	
			150pF	±10%	GMD033R71E151KA01#	
			180pF	±10%	GMD033R71E181KA01#	
			220pF	±10%	GMD033R71E221KA01#	
			270pF	±10%	GMD033R71E271KA01#	
			330pF	±10%	GMD033R71E331KA01#	
			390pF	±10%	GMD033R71E391KA01#	
			470pF	±10%	GMD033R71E471KA01#	
			560pF	±10%	GMD033R71E561KA01#	
			680pF	±10%	GMD033R71E681KA01#	
			820pF	±10%	GMD033R71E821KA01#	
			1000pF	±10%	GMD033R71E102KA01#	
			1200pF	±10%	GMD033R71E122KA01#	
			1500pF	±10%	GMD033R71E152KA01#	
		R	100pF	±10%	GMD033R11E101KA01#	
			120pF	±10%	GMD033R11E121KA01#	
			150pF	±10%	GMD033R11E151KA01#	
			180pF	±10%	GMD033R11E181KA01#	
			220pF	±10%	GMD033R11E221KA01#	
			270pF	±10%	GMD033R11E271KA01#	
			330pF	±10%	GMD033R11E331KA01#	
			390pF	±10%	GMD033R11E391KA01#	
			470pF	±10%	GMD033R11E471KA01#	
			560pF	±10%	GMD033R11E561KA01#	
			680pF	±10%	GMD033R11E681KA01#	
			820pF	±10%	GMD033R11E821KA01#	
			1000pF	±10%	GMD033R11E102KA01#	
			1200pF	±10%	GMD033R11E122KA01#	
			1500pF	±10%	GMD033R11E152KA01#	
		B	100pF	±10%	GMD033B11E101KA01#	
			120pF	±10%	GMD033B11E121KA01#	
			150pF	±10%	GMD033B11E151KA01#	
			180pF	±10%	GMD033B11E181KA01#	
			220pF	±10%	GMD033B11E221KA01#	
			270pF	±10%	GMD033B11E271KA01#	
			330pF	±10%	GMD033B11E331KA01#	
			390pF	±10%	GMD033B11E391KA01#	
			470pF	±10%	GMD033B11E471KA01#	
			560pF	±10%	GMD033B11E561KA01#	
			680pF	±10%	GMD033B11E681KA01#	
			820pF	±10%	GMD033B11E821KA01#	
			1000pF	±10%	GMD033B11E102KA01#	
			1200pF	±10%	GMD033B11E122KA01#	
			1500pF	±10%	GMD033B11E152KA01#	
		16Vdc	X7R	1800pF	±10%	GMD033R71C182KA11#
				2200pF	±10%	GMD033R71C222KA11#
				2700pF	±10%	GMD033R71C272KA11#
				3300pF	±10%	GMD033R71C332KA11#
			R	1800pF	±10%	GMD033R11C182KA11#
				2200pF	±10%	GMD033R11C222KA11#
				2700pF	±10%	GMD033R11C272KA11#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.33mm	16Vdc	X7R	3300pF	±10%	GMD033R11C332KA11#
			1800pF	±10%	GMD033B31C182KA11#
			2200pF	±10%	GMD033B31C222KA11#
			2700pF	±10%	GMD033B31C272KA11#
			3300pF	±10%	GMD033B31C332KA11#
		X7R	3900pF	±10%	GMD033R71A392KA01#
			4700pF	±10%	GMD033R71A472KA01#
			5600pF	±10%	GMD033R71A562KA01#
			6800pF	±10%	GMD033R71A682KA01#
			8200pF	±10%	GMD033R71A822KA01#
		R	10000pF	±10%	GMD033R71A103KA01#
			3900pF	±10%	GMD033R11A392KA01#
			4700pF	±10%	GMD033R11A472KA01#
			5600pF	±10%	GMD033R11A562KA01#
			6800pF	±10%	GMD033R11A682KA01#
		X5R	8200pF	±10%	GMD033B11A822KA01#
			10000pF	±10%	GMD033B11A103KA01#
			56000pF	±10%	GMD033R60J563KE11#
			68000pF	±10%	GMD033R60J683KE11#
			82000pF	±10%	GMD033R60J823KE11#
		B	0.10μF	±10%	GMD033R60J104KE11#
			56000pF	±10%	GMD033B30J563KE11#
			68000pF	±10%	GMD033B30J683KE11#
			82000pF	±10%	GMD033B30J823KE11#
			0.10μF	±10%	GMD033B30J104KE11#

1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	X7R	220pF	±10%	GMD155R71H221KA01#
			270pF	±10%	GMD155R71H271KA01#
			330pF	±10%	GMD155R71H331KA01#
			390pF	±10%	GMD155R71H391KA01#
			470pF	±10%	GMD155R71H471KA01#
			560pF	±10%	GMD155R71H561KA01#
			680pF	±10%	GMD155R71H681KA01#
			820pF	±10%	GMD155R71H821KA01#
			1000pF	±10%	GMD155R71H102KA01#
			1200pF	±10%	GMD155R71H122KA01#
			1500pF	±10%	GMD155R71H152KA01#
		X7R	1800pF	±10%	GMD155R71H182KA01#
			2200pF	±10%	GMD155R71H222KA01#
			2700pF	±10%	GMD155R71H272KA01#
			3300pF	±10%	GMD155R71H332KA01#
			3900pF	±10%	GMD155R71H392KA01#
		R	4700pF	±10%	GMD155R71H472KA01#
			220pF	±10%	GMD155R11H221KA01#

Part number # indicates the package specification code.

## GMD Series High Dielectric Constant Type **Bonding** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	R	270pF	±10%	GMD155R11H271KA01#	0.55mm	25Vdc	R	33000pF	±10%	GMD155R11E333KA11#
			330pF	±10%	GMD155R11H331KA01#				39000pF	±10%	GMD155R11E393KA11#
			390pF	±10%	GMD155R11H391KA01#				47000pF	±10%	GMD155R11E473KA11#
			470pF	±10%	GMD155R11H471KA01#			B	5600pF	±10%	GMD155B11E562KA01#
			560pF	±10%	GMD155R11H561KA01#				6800pF	±10%	GMD155B11E682KA01#
			680pF	±10%	GMD155R11H681KA01#				8200pF	±10%	GMD155B11E822KA01#
			820pF	±10%	GMD155R11H821KA01#				10000pF	±10%	GMD155B11E103KA01#
			1000pF	±10%	GMD155R11H102KA01#				12000pF	±10%	GMD155B11E123KA01#
			1200pF	±10%	GMD155R11H122KA01#				15000pF	±10%	GMD155B11E153KA01#
			1500pF	±10%	GMD155R11H152KA01#				18000pF	±10%	GMD155B11E183KA01#
			1800pF	±10%	GMD155R11H182KA01#				22000pF	±10%	GMD155B11E223KA01#
			2200pF	±10%	GMD155R11H222KA01#				27000pF	±10%	GMD155B31E273KA11#
			2700pF	±10%	GMD155R11H272KA01#				33000pF	±10%	GMD155B31E333KA11#
			3300pF	±10%	GMD155R11H332KA01#				39000pF	±10%	GMD155B31E393KA11#
			3900pF	±10%	GMD155R11H392KA01#				47000pF	±10%	GMD155B31E473KA11#
			4700pF	±10%	GMD155R11H472KA01#						
		B	220pF	±10%	GMD155B11H221KA01#						
			270pF	±10%	GMD155B11H271KA01#						
			330pF	±10%	GMD155B11H331KA01#						
			390pF	±10%	GMD155B11H391KA01#						
			470pF	±10%	GMD155B11H471KA01#						
			560pF	±10%	GMD155B11H561KA01#						
			680pF	±10%	GMD155B11H681KA01#						
			820pF	±10%	GMD155B11H821KA01#						
			1000pF	±10%	GMD155B11H102KA01#						
			1200pF	±10%	GMD155B11H122KA01#						
			1500pF	±10%	GMD155B11H152KA01#						
			1800pF	±10%	GMD155B11H182KA01#						
			2200pF	±10%	GMD155B11H222KA01#						
			2700pF	±10%	GMD155B11H272KA01#						
			3300pF	±10%	GMD155B11H332KA01#						
			3900pF	±10%	GMD155B11H392KA01#						
			4700pF	±10%	GMD155B11H472KA01#						
	25Vdc	X7R	5600pF	±10%	GMD155R71E562KA01#						
			6800pF	±10%	GMD155R71E682KA01#						
			8200pF	±10%	GMD155R71E822KA01#						
			10000pF	±10%	GMD155R71E103KA01#						
			12000pF	±10%	GMD155R71E123KA01#						
			15000pF	±10%	GMD155R71E153KA01#						
			18000pF	±10%	GMD155R71E183KA01#						
			22000pF	±10%	GMD155R71E223KA01#						
			27000pF	±10%	GMD155R71E273KA11#						
			33000pF	±10%	GMD155R71E333KA11#						
			39000pF	±10%	GMD155R71E393KA11#						
			47000pF	±10%	GMD155R71E473KA11#						
		R	5600pF	±10%	GMD155R11E562KA01#						
			6800pF	±10%	GMD155R11E682KA01#						
			8200pF	±10%	GMD155R11E822KA01#						
			10000pF	±10%	GMD155R11E103KA01#						
			12000pF	±10%	GMD155R11E123KA01#						
			15000pF	±10%	GMD155R11E153KA01#						
			18000pF	±10%	GMD155R11E183KA01#						
			22000pF	±10%	GMD155R11E223KA01#						
			27000pF	±10%	GMD155R11E273KA11#						
			33000pF	±10%	GMD155R11E333KA11#						
			39000pF	±10%	GMD155R11E393KA11#						
			47000pF	±10%	GMD155R11E473KA11#						

Part number # indicates the package specification code.

## High Q Monolithic Ceramic Capacitor for High frequency and High power

### GQM Series



High  
Q

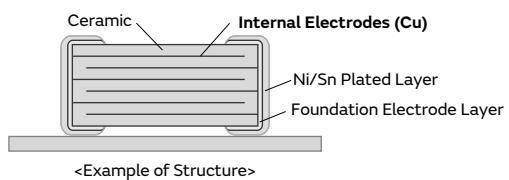
WEB

## High Frequency Capacitor Ideal for PA Design of Base Stations

### Features

#### ① Mainly ideal for base stations of mobile communication devices and temperature compensation of related modules.

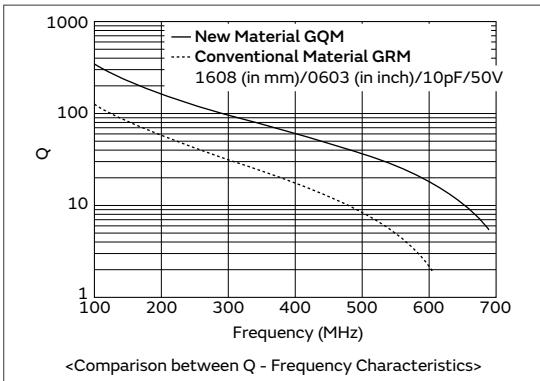
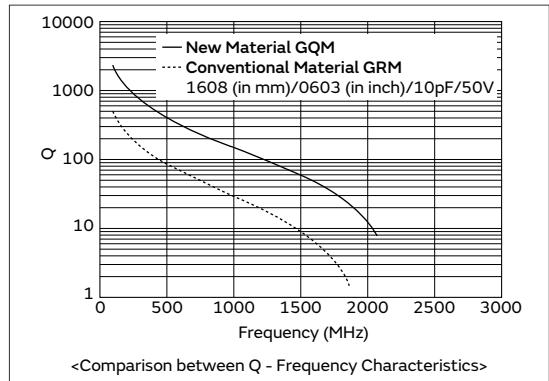
This product is ideal for temperature compensation of high frequency circuits, such as resonant circuits, tuning circuits, and impedance matching circuits where the operating characteristics of the device are greatly affected by the capacitance fluctuation.



<Example of Structure>

#### ② High Q and low ESR in VHF, UHF and microwave frequency bands.

High Q and low ESR were achieved at a high frequency by adopting ceramic material as the dielectric material which enables an extremely low loss at high frequency, and base metal electrodes as the internal electrodes.



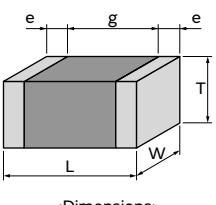
#### ③ Can be used for tight tolerance.

In addition to standard tolerance, the allowable range of this product is also suitable for the following narrow tolerance.

Capacitance Range	Standard Capacitance Tolerance (Capacitance Tolerance Symbol)	Narrow Capacitance Tolerance (Capacitance Tolerance Symbol)
to 0.9pF	±0.1pF (B)	±0.05pF (W)
1.0 to 5.0pF	±0.25pF (C)	±0.05pF (W), ±0.1pF (B)
5.1 to 9.9pF	±0.5pF (D)	±0.05pF (W), ±0.1pF (B), ±0.25pF (C)
10pF to	±5% (J)	±2% (G)

### Specifications

Size (mm)	1.0×0.5mm to 2.8×2.8mm
Rated Voltage	50Vdc to 500Vdc
Capacitance	0.10pF to 200pF
Main Applications	Measuring instruments, other ultra compact/thin devices



<Dimensions>

This catalog contains only a portion of the product lineup.  
 Please refer to the capacitor search tool on the Murata Web site for details.

## GQM Series Temperature Compensating Type **High Q** Part Number List

1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	200Vdc	C0G	0.10pF	±0.1pF	<b>GQM1555C2DR10BB01#</b>
			0.20pF	±0.1pF	<b>GQM1555C2DR20BB01#</b>
			0.30pF	±0.1pF	<b>GQM1555C2DR30BB01#</b>
				±0.25pF	<b>GQM1555C2DR30CB01#</b>
			0.40pF	±0.1pF	<b>GQM1555C2DR40BB01#</b>
				±0.25pF	<b>GQM1555C2DR40CB01#</b>
			0.50pF	±0.1pF	<b>GQM1555C2DR50BB01#</b>
				±0.25pF	<b>GQM1555C2DR50CB01#</b>
			0.60pF	±0.1pF	<b>GQM1555C2DR60BB01#</b>
				±0.25pF	<b>GQM1555C2DR60CB01#</b>
			0.70pF	±0.1pF	<b>GQM1555C2DR70BB01#</b>
				±0.25pF	<b>GQM1555C2DR70CB01#</b>
			0.75pF	±0.1pF	<b>GQM1555C2DR75BB01#</b>
				±0.25pF	<b>GQM1555C2DR75CB01#</b>
			0.80pF	±0.1pF	<b>GQM1555C2DR80BB01#</b>
				±0.25pF	<b>GQM1555C2DR80CB01#</b>
			0.90pF	±0.1pF	<b>GQM1555C2DR90BB01#</b>
				±0.25pF	<b>GQM1555C2DR90CB01#</b>
			1.0pF	±0.1pF	<b>GQM1555C2D1R0BB01#</b>
				±0.25pF	<b>GQM1555C2D1R0CB01#</b>
			1.1pF	±0.1pF	<b>GQM1555C2D1R1BB01#</b>
				±0.25pF	<b>GQM1555C2D1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM1555C2D1R2BB01#</b>
				±0.25pF	<b>GQM1555C2D1R2CB01#</b>
			1.3pF	±0.1pF	<b>GQM1555C2D1R3BB01#</b>
				±0.25pF	<b>GQM1555C2D1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM1555C2D1R5BB01#</b>
				±0.25pF	<b>GQM1555C2D1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM1555C2D1R6BB01#</b>
				±0.25pF	<b>GQM1555C2D1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM1555C2D1R8BB01#</b>
				±0.25pF	<b>GQM1555C2D1R8CB01#</b>
			2.0pF	±0.1pF	<b>GQM1555C2D2R0BB01#</b>
				±0.25pF	<b>GQM1555C2D2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM1555C2D2R2BB01#</b>
				±0.25pF	<b>GQM1555C2D2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM1555C2D2R4BB01#</b>
				±0.25pF	<b>GQM1555C2D2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM1555C2D2R7BB01#</b>
				±0.25pF	<b>GQM1555C2D2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM1555C2D3R0BB01#</b>
				±0.25pF	<b>GQM1555C2D3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM1555C2D3R3BB01#</b>
				±0.25pF	<b>GQM1555C2D3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM1555C2D3R6BB01#</b>
				±0.25pF	<b>GQM1555C2D3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM1555C2D3R9BB01#</b>
				±0.25pF	<b>GQM1555C2D3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM1555C2D4R0BB01#</b>
				±0.25pF	<b>GQM1555C2D4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM1555C2D4R3BB01#</b>
				±0.25pF	<b>GQM1555C2D4R3CB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	200Vdc	COG	4.7pF	±0.1pF	<b>GQM1555C2D4R7BB01#</b>
				±0.25pF	<b>GQM1555C2D4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM1555C2D5R0BB01#</b>
				±0.25pF	<b>GQM1555C2D5R0CB01#</b>
			5.1pF	±0.1pF	<b>GQM1555C2D5R1BB01#</b>
				±0.25pF	<b>GQM1555C2D5R1CB01#</b>
			5.6pF	±0.1pF	<b>GQM1555C2D5R6BB01#</b>
				±0.25pF	<b>GQM1555C2D5R6CB01#</b>
			6.0pF	±0.1pF	<b>GQM1555C2D6R0BB01#</b>
				±0.25pF	<b>GQM1555C2D6R0CB01#</b>
			6.2pF	±0.1pF	<b>GQM1555C2D6R2BB01#</b>
				±0.25pF	<b>GQM1555C2D6R2CB01#</b>
			6.8pF	±0.1pF	<b>GQM1555C2D6R8BB01#</b>
				±0.25pF	<b>GQM1555C2D6R8CB01#</b>
			7.0pF	±0.1pF	<b>GQM1555C2D7R0BB01#</b>
				±0.25pF	<b>GQM1555C2D7R0CB01#</b>
			7.5pF	±0.1pF	<b>GQM1555C2D7R5BB01#</b>
				±0.25pF	<b>GQM1555C2D7R5CB01#</b>
			8.0pF	±0.1pF	<b>GQM1555C2D8R0BB01#</b>
				±0.25pF	<b>GQM1555C2D8R0CB01#</b>
			8.2pF	±0.1pF	<b>GQM1555C2D8R2BB01#</b>
				±0.25pF	<b>GQM1555C2D8R2CB01#</b>
			9.0pF	±0.1pF	<b>GQM1555C2D9R0BB01#</b>
				±0.25pF	<b>GQM1555C2D9R0CB01#</b>
			9.1pF	±0.1pF	<b>GQM1555C2D9R1BB01#</b>
				±0.25pF	<b>GQM1555C2D9R1CB01#</b>
			10pF	±2%	<b>GQM1555C2D100GB01#</b>
				±5%	<b>GQM1555C2D100JB01#</b>
			11pF	±2%	<b>GQM1555C2D110GB01#</b>
				±5%	<b>GQM1555C2D110JB01#</b>
			12pF	±2%	<b>GQM1555C2D120GB01#</b>
				±5%	<b>GQM1555C2D120JB01#</b>
			13pF	±2%	<b>GQM1555C2D130GB01#</b>
				±5%	<b>GQM1555C2D130JB01#</b>
			15pF	±2%	<b>GQM1555C2D150GB01#</b>
				±5%	<b>GQM1555C2D150JB01#</b>
			16pF	±2%	<b>GQM1555C2D160GB01#</b>
				±5%	<b>GQM1555C2D160JB01#</b>
			18pF	±2%	<b>GQM1555C2D180GB01#</b>
				±5%	<b>GQM1555C2D180JB01#</b>
			20pF	±2%	<b>GQM1555C2D200GB01#</b>
				±5%	<b>GQM1555C2D200JB01#</b>
			22pF	±2%	<b>GQM1555C2D220GB01#</b>
				±5%	<b>GQM1555C2D220JB01#</b>
			24pF	±2%	<b>GQM1555C2D240GB01#</b>
				±5%	<b>GQM1555C2D240JB01#</b>
			27pF	±2%	<b>GQM1555C2D270GB01#</b>
				±5%	<b>GQM1555C2D270JB01#</b>
			30pF	±2%	<b>GQM1555C2D300GB01#</b>
				±5%	<b>GQM1555C2D300JB01#</b>
			33pF	±2%	<b>GQM1555C2D330GB01#</b>
				±5%	<b>GQM1555C2D330JB01#</b>
	100Vdc	COG	36pF	±2%	<b>GQM1555C2A360GB01#</b>
				±5%	<b>GQM1555C2A360JB01#</b>

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.0×0.5mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	COG	39pF	±2%	GQM1555C2A390GB01#
				±5%	GQM1555C2A390JB01#
			43pF	±2%	GQM1555C2A430GB01#
				±5%	GQM1555C2A430JB01#
			47pF	±2%	GQM1555C2A470GB01#
				±5%	GQM1555C2A470JB01#

1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.8mm	250Vdc	COG	1.0pF	±0.1pF	GQM1875C2E1R0BB12#
				±0.25pF	GQM1875C2E1R0CB12#
			1.1pF	±0.1pF	GQM1875C2E1R1BB12#
				±0.25pF	GQM1875C2E1R1CB12#
			1.2pF	±0.1pF	GQM1875C2E1R2BB12#
				±0.25pF	GQM1875C2E1R2CB12#
			1.3pF	±0.1pF	GQM1875C2E1R3BB12#
				±0.25pF	GQM1875C2E1R3CB12#
			1.5pF	±0.1pF	GQM1875C2E1R5BB12#
				±0.25pF	GQM1875C2E1R5CB12#
			1.6pF	±0.1pF	GQM1875C2E1R6BB12#
				±0.25pF	GQM1875C2E1R6CB12#
			1.8pF	±0.1pF	GQM1875C2E1R8BB12#
				±0.25pF	GQM1875C2E1R8CB12#
			2.0pF	±0.1pF	GQM1875C2E2R0BB12#
				±0.25pF	GQM1875C2E2R0CB12#
			2.2pF	±0.1pF	GQM1875C2E2R2BB12#
				±0.25pF	GQM1875C2E2R2CB12#
			2.4pF	±0.1pF	GQM1875C2E2R4BB12#
				±0.25pF	GQM1875C2E2R4CB12#
			2.7pF	±0.1pF	GQM1875C2E2R7BB12#
				±0.25pF	GQM1875C2E2R7CB12#
			3.0pF	±0.1pF	GQM1875C2E3R0BB12#
				±0.25pF	GQM1875C2E3R0CB12#
			3.3pF	±0.1pF	GQM1875C2E3R3BB12#
				±0.25pF	GQM1875C2E3R3CB12#
			3.6pF	±0.1pF	GQM1875C2E3R6BB12#
				±0.25pF	GQM1875C2E3R6CB12#
			3.9pF	±0.1pF	GQM1875C2E3R9BB12#
				±0.25pF	GQM1875C2E3R9CB12#
			4.0pF	±0.1pF	GQM1875C2E4R0BB12#
				±0.25pF	GQM1875C2E4R0CB12#
			4.3pF	±0.1pF	GQM1875C2E4R3BB12#
				±0.25pF	GQM1875C2E4R3CB12#
			4.7pF	±0.1pF	GQM1875C2E4R7BB12#
				±0.25pF	GQM1875C2E4R7CB12#
			5.0pF	±0.1pF	GQM1875C2E5R0BB12#
				±0.25pF	GQM1875C2E5R0CB12#
			5.1pF	±0.25pF	GQM1875C2E5R1CB12#
				±0.5pF	GQM1875C2E5R1DB12#
			5.6pF	±0.25pF	GQM1875C2E5R6CB12#
				±0.5pF	GQM1875C2E5R6DB12#
			6.0pF	±0.25pF	GQM1875C2E6R0CB12#
				±0.5pF	GQM1875C2E6R0DB12#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.8mm	250Vdc	COG	6.0pF	±0.5pF	GQM1875C2E6R0DB12#
			6.2pF	±0.25pF	GQM1875C2E6R2CB12#
			6.8pF	±0.25pF	GQM1875C2E6R8CB12#
			7.0pF	±0.25pF	GQM1875C2E7R0CB12#
			7.5pF	±0.25pF	GQM1875C2E7R5CB12#
			8.0pF	±0.25pF	GQM1875C2E8R0CB12#
			8.2pF	±0.25pF	GQM1875C2E8R2CB12#
			9.0pF	±0.25pF	GQM1875C2E9R0CB12#
			9.1pF	±0.25pF	GQM1875C2E9R1CB12#
			10pF	±2%	GQM1875C2E100GB12#
			11pF	±2%	GQM1875C2E110GB12#
			12pF	±2%	GQM1875C2E120GB12#
			13pF	±2%	GQM1875C2E130GB12#
			15pF	±2%	GQM1875C2E150GB12#
			16pF	±2%	GQM1875C2E160GB12#
			18pF	±2%	GQM1875C2E180GB12#
			20pF	±2%	GQM1875C2E200GB12#
			22pF	±2%	GQM1875C2E220GB12#
			24pF	±2%	GQM1875C2E240GB12#
			27pF	±2%	GQM1875C2E270GB12#
			30pF	±2%	GQM1875C2E300GB12#
			33pF	±2%	GQM1875C2E330GB12#
			36pF	±2%	GQM1875C2E360GB12#
			39pF	±2%	GQM1875C2E390GB12#
			43pF	±2%	GQM1875C2E430GB12#
			47pF	±2%	GQM1875C2E470GB12#
0.9mm	100Vdc	COG	1.0pF	±0.1pF	GQM1885C2A1R0BB01#
			1.0pF	±0.25pF	GQM1885C2A1R0CB01#
			1.1pF	±0.1pF	GQM1885C2A1R1BB01#

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	1.1pF	±0.25pF	<b>GQM1885C2A1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM1885C2A1R2BB01#</b>
				±0.25pF	<b>GQM1885C2A1R2CB01#</b>
			1.3pF	±0.1pF	<b>GQM1885C2A1R3BB01#</b>
				±0.25pF	<b>GQM1885C2A1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM1885C2A1R5BB01#</b>
				±0.25pF	<b>GQM1885C2A1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM1885C2A1R6BB01#</b>
				±0.25pF	<b>GQM1885C2A1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM1885C2A1R8BB01#</b>
				±0.25pF	<b>GQM1885C2A1R8CB01#</b>
			2.0pF	±0.1pF	<b>GQM1885C2A2R0BB01#</b>
				±0.25pF	<b>GQM1885C2A2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM1885C2A2R2BB01#</b>
				±0.25pF	<b>GQM1885C2A2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM1885C2A2R4BB01#</b>
				±0.25pF	<b>GQM1885C2A2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM1885C2A2R7BB01#</b>
				±0.25pF	<b>GQM1885C2A2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM1885C2A3R0BB01#</b>
				±0.25pF	<b>GQM1885C2A3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM1885C2A3R3BB01#</b>
				±0.25pF	<b>GQM1885C2A3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM1885C2A3R6BB01#</b>
				±0.25pF	<b>GQM1885C2A3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM1885C2A3R9BB01#</b>
				±0.25pF	<b>GQM1885C2A3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM1885C2A4R0BB01#</b>
				±0.25pF	<b>GQM1885C2A4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM1885C2A4R3BB01#</b>
				±0.25pF	<b>GQM1885C2A4R3CB01#</b>
			4.7pF	±0.1pF	<b>GQM1885C2A4R7BB01#</b>
				±0.25pF	<b>GQM1885C2A4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM1885C2A5R0BB01#</b>
				±0.25pF	<b>GQM1885C2A5R0CB01#</b>
			5.1pF	±0.25pF	<b>GQM1885C2A5R1CB01#</b>
				±0.5pF	<b>GQM1885C2A5R1DB01#</b>
			5.6pF	±0.25pF	<b>GQM1885C2A5R6CB01#</b>
				±0.5pF	<b>GQM1885C2A5R6DB01#</b>
			6.0pF	±0.25pF	<b>GQM1885C2A6R0CB01#</b>
				±0.5pF	<b>GQM1885C2A6R0DB01#</b>
			6.2pF	±0.25pF	<b>GQM1885C2A6R2CB01#</b>
				±0.5pF	<b>GQM1885C2A6R2DB01#</b>
			6.8pF	±0.25pF	<b>GQM1885C2A6R8CB01#</b>
				±0.5pF	<b>GQM1885C2A6R8DB01#</b>
CK		COG	1.0pF	±0.1pF	<b>GQM1884C2A1R0BB01#</b>
				±0.25pF	<b>GQM1884C2A1R0CB01#</b>
			1.1pF	±0.1pF	<b>GQM1884C2A1R1BB01#</b>
				±0.25pF	<b>GQM1884C2A1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM1884C2A1R2BB01#</b>
				±0.25pF	<b>GQM1884C2A1R2CB01#</b>
		CK	1.3pF	±0.1pF	<b>GQM1884C2A1R3BB01#</b>
				±0.25pF	<b>GQM1884C2A1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM1884C2A1R5BB01#</b>
				±0.25pF	<b>GQM1884C2A1R5CB01#</b>
			1.7pF	±0.1pF	<b>GQM1884C2A1R7BB01#</b>
				±0.25pF	<b>GQM1884C2A1R7CB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	CK	1.5pF	±0.25pF	<b>GQM1884C2A1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM1884C2A1R6BB01#</b>
				±0.25pF	<b>GQM1884C2A1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM1884C2A1R8BB01#</b>
				±0.25pF	<b>GQM1884C2A1R8CB01#</b>
		CJ	2.0pF	±0.1pF	<b>GQM1884C2A2R0BB01#</b>
				±0.25pF	<b>GQM1884C2A2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM1883C2A2R2BB01#</b>
				±0.25pF	<b>GQM1883C2A2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM1883C2A2R4BB01#</b>
				±0.25pF	<b>GQM1883C2A2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM1883C2A2R7BB01#</b>
				±0.25pF	<b>GQM1883C2A2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM1883C2A3R0BB01#</b>
				±0.25pF	<b>GQM1883C2A3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM1883C2A3R3BB01#</b>
				±0.25pF	<b>GQM1883C2A3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM1883C2A3R6BB01#</b>
				±0.25pF	<b>GQM1883C2A3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM1883C2A3R9BB01#</b>
				±0.25pF	<b>GQM1883C2A3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM1882C2A4R0BB01#</b>
				±0.25pF	<b>GQM1882C2A4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM1882C2A4R3BB01#</b>
				±0.25pF	<b>GQM1882C2A4R3CB01#</b>
			4.7pF	±0.1pF	<b>GQM1882C2A4R7BB01#</b>
				±0.25pF	<b>GQM1882C2A4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM1882C2A5R0BB01#</b>
				±0.25pF	<b>GQM1882C2A5R0CB01#</b>
			5.1pF	±0.25pF	<b>GQM1882C2A5R1CB01#</b>
				±0.5pF	<b>GQM1882C2A5R1DB01#</b>
			5.6pF	±0.25pF	<b>GQM1882C2A5R6CB01#</b>
				±0.5pF	<b>GQM1882C2A5R6DB01#</b>
			6.0pF	±0.25pF	<b>GQM1882C2A6R0CB01#</b>
				±0.5pF	<b>GQM1882C2A6R0DB01#</b>
			6.2pF	±0.25pF	<b>GQM1882C2A6R2CB01#</b>
				±0.5pF	<b>GQM1882C2A6R2DB01#</b>
			6.8pF	±0.25pF	<b>GQM1882C2A6R8CB01#</b>
				±0.5pF	<b>GQM1882C2A6R8DB01#</b>
			7.0pF	±0.25pF	<b>GQM1885C1H7R0CB01#</b>
				±0.5pF	<b>GQM1885C1H7R0DB01#</b>
			7.5pF	±0.25pF	<b>GQM1885C1H7R5CB01#</b>
				±0.5pF	<b>GQM1885C1H7R5DB01#</b>
			8.0pF	±0.25pF	<b>GQM1885C1H8R0CB01#</b>
				±0.5pF	<b>GQM1885C1H8R0DB01#</b>
			8.2pF	±0.25pF	<b>GQM1885C1H8R2CB01#</b>
				±0.5pF	<b>GQM1885C1H8R2DB01#</b>
			9.0pF	±0.25pF	<b>GQM1885C1H9R0CB01#</b>
				±0.5pF	<b>GQM1885C1H9R0DB01#</b>
			9.1pF	±0.25pF	<b>GQM1885C1H9R1CB01#</b>
				±0.5pF	<b>GQM1885C1H9R1DB01#</b>
			10pF	±2%	<b>GQM1885C1H100GB01#</b>
				±5%	<b>GQM1885C1H100JB01#</b>
			11pF	±2%	<b>GQM1885C1H110GB01#</b>

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type High Q Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	COG	11pF	±5%	GQM1885C1H110JB01#	0.9mm	50Vdc	CH	8.2pF	±0.5pF	GQM1882C1H8R2DB01#
			12pF	±2%	GQM1885C1H120GB01#				9.0pF	±0.25pF	GQM1882C1H9R0CB01#
				±5%	GQM1885C1H120JB01#					±0.5pF	GQM1882C1H9R0DB01#
			13pF	±2%	GQM1885C1H130GB01#				9.1pF	±0.25pF	GQM1882C1H9R1CB01#
				±5%	GQM1885C1H130JB01#					±0.5pF	GQM1882C1H9R1DB01#
			15pF	±2%	GQM1885C1H150GB01#				10pF	±2%	GQM1882C1H100GB01#
				±5%	GQM1885C1H150JB01#					±5%	GQM1882C1H100JB01#
			16pF	±2%	GQM1885C1H160GB01#				11pF	±2%	GQM1882C1H110GB01#
				±5%	GQM1885C1H160JB01#					±5%	GQM1882C1H110JB01#
			18pF	±2%	GQM1885C1H180GB01#				12pF	±2%	GQM1882C1H120GB01#
				±5%	GQM1885C1H180JB01#					±5%	GQM1882C1H120JB01#
			20pF	±2%	GQM1885C1H200GB01#				13pF	±2%	GQM1882C1H130GB01#
				±5%	GQM1885C1H200JB01#					±5%	GQM1882C1H130JB01#
			22pF	±2%	GQM1885C1H220GB01#				15pF	±2%	GQM1882C1H150GB01#
				±5%	GQM1885C1H220JB01#					±5%	GQM1882C1H150JB01#
			24pF	±2%	GQM1885C1H240GB01#				16pF	±2%	GQM1882C1H160GB01#
				±5%	GQM1885C1H240JB01#					±5%	GQM1882C1H160JB01#
			27pF	±2%	GQM1885C1H270GB01#				18pF	±2%	GQM1882C1H180GB01#
				±5%	GQM1885C1H270JB01#					±5%	GQM1882C1H180JB01#
			30pF	±2%	GQM1885C1H300GB01#				20pF	±2%	GQM1882C1H200GB01#
				±5%	GQM1885C1H300JB01#					±5%	GQM1882C1H200JB01#
			33pF	±2%	GQM1885C1H330GB01#				22pF	±2%	GQM1882C1H220GB01#
				±5%	GQM1885C1H330JB01#					±5%	GQM1882C1H220JB01#
			36pF	±2%	GQM1885C1H360GB01#				24pF	±2%	GQM1882C1H240GB01#
				±5%	GQM1885C1H360JB01#					±5%	GQM1882C1H240JB01#
			39pF	±2%	GQM1885C1H390GB01#				27pF	±2%	GQM1882C1H270GB01#
				±5%	GQM1885C1H390JB01#					±5%	GQM1882C1H270JB01#
			43pF	±2%	GQM1885C1H430GB01#				30pF	±2%	GQM1882C1H300GB01#
				±5%	GQM1885C1H430JB01#					±5%	GQM1882C1H300JB01#
			47pF	±2%	GQM1885C1H470GB01#				33pF	±2%	GQM1882C1H330GB01#
				±5%	GQM1885C1H470JB01#					±5%	GQM1882C1H330JB01#
			51pF	±2%	GQM1885C1H510GB01#				36pF	±2%	GQM1882C1H360GB01#
				±5%	GQM1885C1H510JB01#					±5%	GQM1882C1H360JB01#
			56pF	±2%	GQM1885C1H560GB01#				39pF	±2%	GQM1882C1H390GB01#
				±5%	GQM1885C1H560JB01#					±5%	GQM1882C1H390JB01#
			62pF	±2%	GQM1885C1H620GB01#				43pF	±2%	GQM1882C1H430GB01#
				±5%	GQM1885C1H620JB01#					±5%	GQM1882C1H430JB01#
			68pF	±2%	GQM1885C1H680GB01#				47pF	±2%	GQM1882C1H470GB01#
				±5%	GQM1885C1H680JB01#					±5%	GQM1882C1H470JB01#
			75pF	±2%	GQM1885C1H750GB01#				51pF	±2%	GQM1882C1H510GB01#
				±5%	GQM1885C1H750JB01#					±5%	GQM1882C1H510JB01#
			82pF	±2%	GQM1885C1H820GB01#				56pF	±2%	GQM1882C1H560GB01#
				±5%	GQM1885C1H820JB01#					±5%	GQM1882C1H560JB01#
			91pF	±2%	GQM1885C1H910GB01#				62pF	±2%	GQM1882C1H620GB01#
				±5%	GQM1885C1H910JB01#					±5%	GQM1882C1H620JB01#
			100pF	±2%	GQM1885C1H101GB01#				68pF	±2%	GQM1882C1H680GB01#
				±5%	GQM1885C1H101JB01#					±5%	GQM1882C1H680JB01#
		CH	7.0pF	±0.25pF	GQM1882C1H7R0CB01#				75pF	±2%	GQM1882C1H750GB01#
				±0.5pF	GQM1882C1H7R0DB01#					±5%	GQM1882C1H750JB01#
			7.5pF	±0.25pF	GQM1882C1H7R5CB01#				82pF	±2%	GQM1882C1H820GB01#
				±0.5pF	GQM1882C1H7R5DB01#					±5%	GQM1882C1H820JB01#
			8.0pF	±0.25pF	GQM1882C1H8R0CB01#				91pF	±2%	GQM1882C1H910GB01#
				±0.5pF	GQM1882C1H8R0DB01#					±5%	GQM1882C1H910JB01#
			8.2pF	±0.25pF	GQM1882C1H8R2CB01#				100pF	±2%	GQM1882C1H101GB01#

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 1.6×0.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	CH	100pF	±5%	<b>GQM1882C1H101JB01#</b>

2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	COG	1.0pF	±0.1pF	<b>GQM2195C2A1R0BB01#</b>
				±0.25pF	<b>GQM2195C2A1R0CB01#</b>
			1.1pF	±0.1pF	<b>GQM2195C2A1R1BB01#</b>
				±0.25pF	<b>GQM2195C2A1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM2195C2A1R2BB01#</b>
				±0.25pF	<b>GQM2195C2A1R2CB01#</b>
			1.3pF	±0.1pF	<b>GQM2195C2A1R3BB01#</b>
				±0.25pF	<b>GQM2195C2A1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM2195C2A1R5BB01#</b>
				±0.25pF	<b>GQM2195C2A1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM2195C2A1R6BB01#</b>
				±0.25pF	<b>GQM2195C2A1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM2195C2A1R8BB01#</b>
				±0.25pF	<b>GQM2195C2A1R8CB01#</b>
			2.0pF	±0.1pF	<b>GQM2195C2A2R0BB01#</b>
				±0.25pF	<b>GQM2195C2A2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM2195C2A2R2BB01#</b>
				±0.25pF	<b>GQM2195C2A2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM2195C2A2R4BB01#</b>
				±0.25pF	<b>GQM2195C2A2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM2195C2A2R7BB01#</b>
				±0.25pF	<b>GQM2195C2A2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM2195C2A3R0BB01#</b>
				±0.25pF	<b>GQM2195C2A3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM2195C2A3R3BB01#</b>
				±0.25pF	<b>GQM2195C2A3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM2195C2A3R6BB01#</b>
				±0.25pF	<b>GQM2195C2A3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM2195C2A3R9BB01#</b>
				±0.25pF	<b>GQM2195C2A3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM2195C2A4R0BB01#</b>
				±0.25pF	<b>GQM2195C2A4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM2195C2A4R3BB01#</b>
				±0.25pF	<b>GQM2195C2A4R3CB01#</b>
			4.7pF	±0.1pF	<b>GQM2195C2A4R7BB01#</b>
				±0.25pF	<b>GQM2195C2A4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM2195C2A5R0BB01#</b>
				±0.25pF	<b>GQM2195C2A5R0CB01#</b>
			5.1pF	±0.25pF	<b>GQM2195C2A5R1CB01#</b>
				±0.5pF	<b>GQM2195C2A5R1DB01#</b>
			5.6pF	±0.25pF	<b>GQM2195C2A5R6CB01#</b>
				±0.5pF	<b>GQM2195C2A5R6DB01#</b>
			6.0pF	±0.25pF	<b>GQM2195C2A6R0CB01#</b>
				±0.5pF	<b>GQM2195C2A6R0DB01#</b>
			6.2pF	±0.25pF	<b>GQM2195C2A6R2CB01#</b>
				±0.5pF	<b>GQM2195C2A6R2DB01#</b>
			6.8pF	±0.25pF	<b>GQM2195C2A6R8CB01#</b>
				±0.5pF	<b>GQM2195C2A6R8DB01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	COG	7.0pF	±0.25pF	<b>GQM2195C2A7R0CB01#</b>
				±0.5pF	<b>GQM2195C2A7R0DB01#</b>
			7.5pF	±0.25pF	<b>GQM2195C2A7R5CB01#</b>
				±0.5pF	<b>GQM2195C2A7R5DB01#</b>
			8.0pF	±0.25pF	<b>GQM2195C2A8R0CB01#</b>
				±0.5pF	<b>GQM2195C2A8R0DB01#</b>
			8.2pF	±0.25pF	<b>GQM2195C2A8R2CB01#</b>
				±0.5pF	<b>GQM2195C2A8R2DB01#</b>
			9.0pF	±0.25pF	<b>GQM2195C2A9R0CB01#</b>
				±0.5pF	<b>GQM2195C2A9R0DB01#</b>
			9.1pF	±0.25pF	<b>GQM2195C2A9R1CB01#</b>
				±0.5pF	<b>GQM2195C2A9R1DB01#</b>
			10pF	±2%	<b>GQM2195C2A100GB01#</b>
				±5%	<b>GQM2195C2A100JB01#</b>
			11pF	±2%	<b>GQM2195C2A110GB01#</b>
				±5%	<b>GQM2195C2A110JB01#</b>
			12pF	±2%	<b>GQM2195C2A120GB01#</b>
				±5%	<b>GQM2195C2A120JB01#</b>
			13pF	±2%	<b>GQM2195C2A130GB01#</b>
				±5%	<b>GQM2195C2A130JB01#</b>
			15pF	±2%	<b>GQM2195C2A150GB01#</b>
				±5%	<b>GQM2195C2A150JB01#</b>
			16pF	±2%	<b>GQM2195C2A160GB01#</b>
				±5%	<b>GQM2195C2A160JB01#</b>
			18pF	±2%	<b>GQM2195C2A180GB01#</b>
				±5%	<b>GQM2195C2A180JB01#</b>
		CK	1.0pF	±0.1pF	<b>GQM2194C2A1R0BB01#</b>
				±0.25pF	<b>GQM2194C2A1R0CB01#</b>
			1.1pF	±0.1pF	<b>GQM2194C2A1R1BB01#</b>
				±0.25pF	<b>GQM2194C2A1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM2194C2A1R2BB01#</b>
				±0.25pF	<b>GQM2194C2A1R2CB01#</b>
			1.3pF	±0.1pF	<b>GQM2194C2A1R3BB01#</b>
				±0.25pF	<b>GQM2194C2A1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM2194C2A1R5BB01#</b>
				±0.25pF	<b>GQM2194C2A1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM2194C2A1R6BB01#</b>
				±0.25pF	<b>GQM2194C2A1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM2194C2A1R8BB01#</b>
				±0.25pF	<b>GQM2194C2A1R8CB01#</b>
			2.0pF	±0.1pF	<b>GQM2194C2A2R0BB01#</b>
				±0.25pF	<b>GQM2194C2A2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM2194C2A2R2BB01#</b>
				±0.25pF	<b>GQM2194C2A2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM2194C2A2R4BB01#</b>
				±0.25pF	<b>GQM2194C2A2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM2194C2A2R7BB01#</b>
				±0.25pF	<b>GQM2194C2A2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM2194C2A3R0BB01#</b>
				±0.25pF	<b>GQM2194C2A3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM2194C2A3R3BB01#</b>
				±0.25pF	<b>GQM2194C2A3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM2194C2A3R6BB01#</b>
				±0.25pF	<b>GQM2194C2A3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM2194C2A3R9BB01#</b>
				±0.25pF	<b>GQM2194C2A3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM2194C2A4R0BB01#</b>
				±0.25pF	<b>GQM2194C2A4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM2194C2A4R3BB01#</b>
				±0.25pF	<b>GQM2194C2A4R3CB01#</b>
			4.7pF	±0.1pF	<b>GQM2194C2A4R7BB01#</b>
				±0.25pF	<b>GQM2194C2A4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM2194C2A5R0BB01#</b>
				±0.25pF	<b>GQM2194C2A5R0CB01#</b>
			5.1pF	±0.25pF	<b>GQM2194C2A5R1CB01#</b>
				±0.5pF	<b>GQM2194C2A5R1DB01#</b>
			5.6pF	±0.25pF	<b>GQM2194C2A5R6CB01#</b>
				±0.5pF	<b>GQM2194C2A5R6DB01#</b>
			6.0pF	±0.25pF	<b>GQM2194C2A6R0CB01#</b>
				±0.5pF	<b>GQM2194C2A6R0DB01#</b>
			6.2pF	±0.25pF	<b>GQM2194C2A6R2CB01#</b>
				±0.5pF	<b>GQM2194C2A6R2DB01#</b>
			6.8pF	±0.25pF	<b>GQM2194C2A6R8CB01#</b>
				±0.5pF	<b>GQM2194C2A6R8DB01#</b>
		CJ	2.2pF	±0.1pF	<b>GQM2193C2A2R2BB01#</b>
				±0.25pF	<b>GQM2193C2A2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM2193C2A2R4BB01#</b>
				±0.25pF	<b>GQM2193C2A2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM2193C2A2R7BB01#</b>
				±0.25pF	<b>GQM2193C2A2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM2193C2A3R0BB01#</b>
				±0.25pF	<b>GQM2193C2A3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM2193C2A3R3BB01#</b>
				±0.25pF	<b>GQM2193C2A3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM2193C2A3R6BB01#</b>
				±0.25pF	<b>GQM2193C2A3R6CB01#</b>

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	100Vdc	CJ	3.9pF	±0.1pF	GQM2193C2A3R9BB01#	0.95mm	50Vdc	COG	30pF	±2%	GQM2195C1H300GB01#	
				±0.25pF	GQM2193C2A3R9CB01#					±5%	GQM2195C1H300JB01#	
		CH	4.0pF	±0.1pF	GQM2192C2A4R0BB01#				33pF	±2%	GQM2195C1H330GB01#	
				±0.25pF	GQM2192C2A4R0CB01#					±5%	GQM2195C1H330JB01#	
			4.3pF	±0.1pF	GQM2192C2A4R3BB01#				36pF	±2%	GQM2195C1H360GB01#	
				±0.25pF	GQM2192C2A4R3CB01#					±5%	GQM2195C1H360JB01#	
			4.7pF	±0.1pF	GQM2192C2A4R7BB01#				39pF	±2%	GQM2195C1H390GB01#	
				±0.25pF	GQM2192C2A4R7CB01#					±5%	GQM2195C1H390JB01#	
			5.0pF	±0.1pF	GQM2192C2A5R0BB01#				43pF	±2%	GQM2195C1H430GB01#	
				±0.25pF	GQM2192C2A5R0CB01#					±5%	GQM2195C1H430JB01#	
			5.1pF	±0.25pF	GQM2192C2A5R1CB01#				47pF	±2%	GQM2195C1H470GB01#	
				±0.5pF	GQM2192C2A5R1DB01#					±5%	GQM2195C1H470JB01#	
			5.6pF	±0.25pF	GQM2192C2A5R6CB01#				51pF	±2%	GQM2195C1H510GB01#	
				±0.5pF	GQM2192C2A5R6DB01#					±5%	GQM2195C1H510JB01#	
			6.0pF	±0.25pF	GQM2192C2A6R0CB01#				56pF	±2%	GQM2195C1H560GB01#	
				±0.5pF	GQM2192C2A6R0DB01#					±5%	GQM2195C1H560JB01#	
			6.2pF	±0.25pF	GQM2192C2A6R2CB01#				62pF	±2%	GQM2195C1H620GB01#	
				±0.5pF	GQM2192C2A6R2DB01#					±5%	GQM2195C1H620JB01#	
			6.8pF	±0.25pF	GQM2192C2A6R8CB01#				68pF	±2%	GQM2195C1H680GB01#	
				±0.5pF	GQM2192C2A6R8DB01#					±5%	GQM2195C1H680JB01#	
			7.0pF	±0.25pF	GQM2192C2A7R0CB01#				75pF	±2%	GQM2195C1H750GB01#	
				±0.5pF	GQM2192C2A7R0DB01#					±5%	GQM2195C1H750JB01#	
			7.5pF	±0.25pF	GQM2192C2A7R5CB01#				82pF	±2%	GQM2195C1H820GB01#	
				±0.5pF	GQM2192C2A7R5DB01#					±5%	GQM2195C1H820JB01#	
			8.0pF	±0.25pF	GQM2192C2A8R0CB01#				91pF	±2%	GQM2195C1H910GB01#	
				±0.5pF	GQM2192C2A8R0DB01#					±5%	GQM2195C1H910JB01#	
			8.2pF	±0.25pF	GQM2192C2A8R2CB01#				100pF	±2%	GQM2195C1H101GB01#	
				±0.5pF	GQM2192C2A8R2DB01#					±5%	GQM2195C1H101JB01#	
			9.0pF	±0.25pF	GQM2192C2A9R0CB01#				CH	20pF	±2%	GQM2192C1H200GB01#
				±0.5pF	GQM2192C2A9R0DB01#					±5%	GQM2192C1H200JB01#	
			9.1pF	±0.25pF	GQM2192C2A9R1CB01#					22pF	±2%	GQM2192C1H220GB01#
				±0.5pF	GQM2192C2A9R1DB01#					±5%	GQM2192C1H220JB01#	
			10pF	±2%	GQM2192C2A100GB01#					24pF	±2%	GQM2192C1H240GB01#
				±5%	GQM2192C2A100JB01#					±5%	GQM2192C1H240JB01#	
			11pF	±2%	GQM2192C2A110GB01#					27pF	±2%	GQM2192C1H270GB01#
				±5%	GQM2192C2A110JB01#					±5%	GQM2192C1H270JB01#	
			12pF	±2%	GQM2192C2A120GB01#					30pF	±2%	GQM2192C1H300GB01#
				±5%	GQM2192C2A120JB01#					33pF	±2%	GQM2192C1H330GB01#
			13pF	±2%	GQM2192C2A130GB01#					36pF	±2%	GQM2192C1H360GB01#
				±5%	GQM2192C2A130JB01#					39pF	±2%	GQM2192C1H390GB01#
			15pF	±2%	GQM2192C2A150GB01#					43pF	±2%	GQM2192C1H430GB01#
				±5%	GQM2192C2A150JB01#					47pF	±2%	GQM2192C1H470GB01#
			16pF	±2%	GQM2192C2A160GB01#					51pF	±2%	GQM2192C1H510GB01#
				±5%	GQM2192C2A160JB01#					56pF	±2%	GQM2192C1H560GB01#
			18pF	±2%	GQM2192C2A180GB01#					62pF	±2%	GQM2192C1H620GB01#
				±5%	GQM2192C2A180JB01#					±5%	GQM2192C1H620JB01#	
		COG	20pF	±2%	GQM2195C1H200GB01#					47pF	±2%	GQM2192C1H470GB01#
				±5%	GQM2195C1H200JB01#					51pF	±2%	GQM2192C1H510GB01#
			22pF	±2%	GQM2195C1H220GB01#					56pF	±2%	GQM2192C1H560JB01#
				±5%	GQM2195C1H220JB01#					62pF	±2%	GQM2192C1H620JB01#
			24pF	±2%	GQM2195C1H240GB01#					±5%	GQM2192C1H620JB01#	
				±5%	GQM2195C1H240JB01#					±5%	GQM2192C1H620JB01#	
		27pF	±2%	GQM2195C1H270GB01#	±5%					GQM2192C1H620JB01#		
				±5%	GQM2195C1H270JB01#					±5%	GQM2192C1H620JB01#	

Part number # indicates the package specification code.



## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	50Vdc	CH	68pF	±2%	GQM2192C1H680GB01#	1.0mm	500Vdc	X8G	6.2pF	±0.25pF	GQM2195G2H6R2CB12#
				±5%	GQM2192C1H680JB01#					±0.5pF	GQM2195G2H6R2DB12#
				75pF	±2%	GQM2192C1H750GB01#			6.8pF	±0.25pF	GQM2195G2H6R8CB12#
				±5%	GQM2192C1H750JB01#	±0.5pF				GQM2195G2H6R8DB12#	
				82pF	±2%	GQM2192C1H820GB01#			7.0pF	±0.25pF	GQM2195G2H7R0CB12#
				±5%	GQM2192C1H820JB01#	±0.5pF				GQM2195G2H7R0DB12#	
				91pF	±2%	GQM2192C1H910GB01#			7.5pF	±0.25pF	GQM2195G2H7R5CB12#
				±5%	GQM2192C1H910JB01#	±0.5pF				GQM2195G2H7R5DB12#	
				100pF	±2%	GQM2192C1H101GB01#			8.0pF	±0.25pF	GQM2195G2H8R0CB12#
				±5%	GQM2192C1H101JB01#	±0.5pF				GQM2195G2H8R0DB12#	
1.0mm	500Vdc	X8G	1.0pF	±0.1pF	GQM2195G2H1R0BB12#			8.2pF	±0.25pF	GQM2195G2H8R2CB12#	
				±0.25pF	GQM2195G2H1R0CB12#				±0.5pF	GQM2195G2H8R2DB12#	
			1.1pF	±0.1pF	GQM2195G2H1R1BB12#			9.0pF	±0.25pF	GQM2195G2H9R0CB12#	
				±0.25pF	GQM2195G2H1R1CB12#				±0.5pF	GQM2195G2H9R0DB12#	
			1.2pF	±0.1pF	GQM2195G2H1R2BB12#			9.1pF	±0.25pF	GQM2195G2H9R1CB12#	
				±0.25pF	GQM2195G2H1R2CB12#				±0.5pF	GQM2195G2H9R1DB12#	
			1.3pF	±0.1pF	GQM2195G2H1R3BB12#			10pF	±2%	GQM2195G2H100GB12#	
				±0.25pF	GQM2195G2H1R3CB12#				±5%	GQM2195G2H100JB12#	
			1.5pF	±0.1pF	GQM2195G2H1R5BB12#			11pF	±2%	GQM2195G2H110GB12#	
				±0.25pF	GQM2195G2H1R5CB12#				±5%	GQM2195G2H110JB12#	
			1.6pF	±0.1pF	GQM2195G2H1R6BB12#			12pF	±2%	GQM2195G2H120GB12#	
				±0.25pF	GQM2195G2H1R6CB12#				±5%	GQM2195G2H120JB12#	
			1.8pF	±0.1pF	GQM2195G2H1R8BB12#			13pF	±2%	GQM2195G2H130GB12#	
				±0.25pF	GQM2195G2H1R8CB12#				±5%	GQM2195G2H130JB12#	
			2.0pF	±0.1pF	GQM2195G2H2R0BB12#			15pF	±2%	GQM2195G2H150GB12#	
				±0.25pF	GQM2195G2H2R0CB12#				±5%	GQM2195G2H150JB12#	
			2.2pF	±0.1pF	GQM2195G2H2R2BB12#			16pF	±2%	GQM2195G2H160GB12#	
				±0.25pF	GQM2195G2H2R2CB12#				±5%	GQM2195G2H160JB12#	
			2.4pF	±0.1pF	GQM2195G2H2R4BB12#			18pF	±2%	GQM2195G2H180GB12#	
				±0.25pF	GQM2195G2H2R4CB12#				±5%	GQM2195G2H180JB12#	
			2.7pF	±0.1pF	GQM2195G2H2R7BB12#			20pF	±2%	GQM2195G2H200GB12#	
				±0.25pF	GQM2195G2H2R7CB12#				±5%	GQM2195G2H200JB12#	
			3.0pF	±0.1pF	GQM2195G2H3R0BB12#			22pF	±2%	GQM2195G2H220GB12#	
				±0.25pF	GQM2195G2H3R0CB12#				±5%	GQM2195G2H220JB12#	
			3.3pF	±0.1pF	GQM2195G2H3R3BB12#			250Vdc COG	±0.1pF	GQM2195C2E1R0BB12#	
				±0.25pF	GQM2195G2H3R3CB12#				±0.25pF	GQM2195C2E1R0CB12#	
			3.6pF	±0.1pF	GQM2195G2H3R6BB12#				±0.1pF	GQM2195C2E1R1BB12#	
				±0.25pF	GQM2195G2H3R6CB12#				±0.25pF	GQM2195C2E1R1CB12#	
			3.9pF	±0.1pF	GQM2195G2H3R9BB12#				±0.1pF	GQM2195C2E1R2BB12#	
				±0.25pF	GQM2195G2H3R9CB12#				±0.25pF	GQM2195C2E1R2CB12#	
			4.0pF	±0.1pF	GQM2195G2H4R0BB12#				±0.1pF	GQM2195C2E1R3BB12#	
				±0.25pF	GQM2195G2H4R0CB12#				±0.25pF	GQM2195C2E1R3CB12#	
			4.3pF	±0.1pF	GQM2195G2H4R3BB12#				±0.1pF	GQM2195C2E1R5BB12#	
				±0.25pF	GQM2195G2H4R3CB12#				±0.25pF	GQM2195C2E1R5CB12#	
			4.7pF	±0.1pF	GQM2195G2H4R7BB12#				±0.1pF	GQM2195C2E1R6BB12#	
				±0.25pF	GQM2195G2H4R7CB12#				±0.25pF	GQM2195C2E1R6CB12#	
			5.0pF	±0.1pF	GQM2195G2H5R0BB12#				±0.1pF	GQM2195C2E1R8BB12#	
				±0.25pF	GQM2195G2H5R0CB12#				±0.25pF	GQM2195C2E1R8CB12#	
			5.1pF	±0.25pF	GQM2195G2H5R1CB12#				±0.1pF	GQM2195C2E2R0BB12#	
				±0.5pF	GQM2195G2H5R1DB12#				±0.25pF	GQM2195C2E2R0CB12#	
			5.6pF	±0.25pF	GQM2195G2H5R6CB12#				±0.1pF	GQM2195C2E2R2BB12#	
				±0.5pF	GQM2195G2H5R6DB12#				±0.25pF	GQM2195C2E2R2CB12#	
			6.0pF	±0.25pF	GQM2195G2H6R0CB12#				±0.1pF	GQM2195C2E2R4BB12#	
				±0.5pF	GQM2195G2H6R0DB12#				±0.25pF	GQM2195C2E2R4CB12#	

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type High Q Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	250Vdc	COG	2.7pF	±0.1pF	GQM2195C2E2R7BB12#	1.0mm	250Vdc	COG	20pF	±2%	GQM2195C2E200GB12#
				±0.25pF	GQM2195C2E2R7CB12#					±5%	GQM2195C2E200JB12#
			3.0pF	±0.1pF	GQM2195C2E3ROBB12#			22pF	±2%	GQM2195C2E220GB12#	
				±0.25pF	GQM2195C2E3ROCB12#					±5%	GQM2195C2E220JB12#
			3.3pF	±0.1pF	GQM2195C2E3R3BB12#			24pF	±2%	GQM2195C2E240GB12#	
				±0.25pF	GQM2195C2E3R3CB12#					±5%	GQM2195C2E240JB12#
			3.6pF	±0.1pF	GQM2195C2E3R6BB12#			27pF	±2%	GQM2195C2E270GB12#	
				±0.25pF	GQM2195C2E3R6CB12#					±5%	GQM2195C2E270JB12#
			3.9pF	±0.1pF	GQM2195C2E3R9BB12#			30pF	±2%	GQM2195C2E300GB12#	
				±0.25pF	GQM2195C2E3R9CB12#					±5%	GQM2195C2E300JB12#
			4.0pF	±0.1pF	GQM2195C2E4R0BB12#			33pF	±2%	GQM2195C2E330GB12#	
				±0.25pF	GQM2195C2E4R0CB12#					±5%	GQM2195C2E330JB12#
			4.3pF	±0.1pF	GQM2195C2E4R3BB12#			36pF	±2%	GQM2195C2E360GB12#	
				±0.25pF	GQM2195C2E4R3CB12#					±5%	GQM2195C2E360JB12#
			4.7pF	±0.1pF	GQM2195C2E4R7BB12#			39pF	±2%	GQM2195C2E390GB12#	
				±0.25pF	GQM2195C2E4R7CB12#					±5%	GQM2195C2E390JB12#
			5.0pF	±0.1pF	GQM2195C2E5R0BB12#			43pF	±2%	GQM2195C2E430GB12#	
				±0.25pF	GQM2195C2E5R0CB12#					±5%	GQM2195C2E430JB12#
			5.1pF	±0.25pF	GQM2195C2E5R1CB12#			47pF	±2%	GQM2195C2E470GB12#	
				±0.5pF	GQM2195C2E5R1DB12#					±5%	GQM2195C2E470JB12#
			5.6pF	±0.25pF	GQM2195C2E5R6CB12#			51pF	±2%	GQM2195C2E510GB12#	
				±0.5pF	GQM2195C2E5R6DB12#					±5%	GQM2195C2E510JB12#
			6.0pF	±0.25pF	GQM2195C2E6R0CB12#			56pF	±2%	GQM2195C2E560GB12#	
				±0.5pF	GQM2195C2E6R0DB12#					±5%	GQM2195C2E560JB12#
			6.2pF	±0.25pF	GQM2195C2E6R2CB12#			62pF	±2%	GQM2195C2E620GB12#	
				±0.5pF	GQM2195C2E6R2DB12#					±5%	GQM2195C2E620JB12#
			6.8pF	±0.25pF	GQM2195C2E6R8CB12#			68pF	±2%	GQM2195C2E680GB12#	
				±0.5pF	GQM2195C2E6R8DB12#					±5%	GQM2195C2E680JB12#
			7.0pF	±0.25pF	GQM2195C2E7R0CB12#			75pF	±2%	GQM2195C2E750GB12#	
				±0.5pF	GQM2195C2E7R0DB12#					±5%	GQM2195C2E750JB12#
			7.5pF	±0.25pF	GQM2195C2E7R5CB12#			82pF	±2%	GQM2195C2E820GB12#	
				±0.5pF	GQM2195C2E7R5DB12#					±5%	GQM2195C2E820JB12#
			8.0pF	±0.25pF	GQM2195C2E8R0CB12#			91pF	±2%	GQM2195C2E910GB12#	
				±0.5pF	GQM2195C2E8R0DB12#					±5%	GQM2195C2E910JB12#
			8.2pF	±0.25pF	GQM2195C2E8R2CB12#			100pF	±2%	GQM2195C2E101GB12#	
				±0.5pF	GQM2195C2E8R2DB12#					±5%	GQM2195C2E101JB12#
			9.0pF	±0.25pF	GQM2195C2E9R0CB12#	X8G	1.0pF	±0.1pF	GQM2195G2E1R0BB12#		
				±0.5pF	GQM2195C2E9R0DB12#					±0.25pF	GQM2195G2E1R0CB12#
			9.1pF	±0.25pF	GQM2195C2E9R1CB12#		1.1pF	±0.1pF	GQM2195G2E1R1BB12#		
				±0.5pF	GQM2195C2E9R1DB12#					±0.25pF	GQM2195G2E1R1CB12#
			10pF	±2%	GQM2195C2E100GB12#		1.2pF	±0.1pF	GQM2195G2E1R2BB12#		
				±5%	GQM2195C2E100JB12#					±0.25pF	GQM2195G2E1R2CB12#
			11pF	±2%	GQM2195C2E110GB12#		1.3pF	±0.1pF	GQM2195G2E1R3BB12#		
				±5%	GQM2195C2E110JB12#					±0.25pF	GQM2195G2E1R3CB12#
			12pF	±2%	GQM2195C2E120GB12#		1.5pF	±0.1pF	GQM2195G2E1R5BB12#		
				±5%	GQM2195C2E120JB12#					±0.25pF	GQM2195G2E1R5CB12#
			13pF	±2%	GQM2195C2E130GB12#		1.6pF	±0.1pF	GQM2195G2E1R6BB12#		
				±5%	GQM2195C2E130JB12#					±0.25pF	GQM2195G2E1R6CB12#
			15pF	±2%	GQM2195C2E150GB12#		1.8pF	±0.1pF	GQM2195G2E1R8BB12#		
				±5%	GQM2195C2E150JB12#					±0.25pF	GQM2195G2E1R8CB12#
			16pF	±2%	GQM2195C2E160GB12#		2.0pF	±0.1pF	GQM2195G2E2R0BB12#		
				±5%	GQM2195C2E160JB12#					±0.25pF	GQM2195G2E2R0CB12#
			18pF	±2%	GQM2195C2E180GB12#			2.2pF	±0.1pF	GQM2195G2E2R2BB12#	
				±5%	GQM2195C2E180JB12#					±0.25pF	GQM2195G2E2R2CB12#

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 2.0×1.25mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	250Vdc	X8G	2.4pF	±0.1pF	<b>GQM2195G2E2R4BB12#</b>
				±0.25pF	<b>GQM2195G2E2R4CB12#</b>
			2.7pF	±0.1pF	<b>GQM2195G2E2R7BB12#</b>
				±0.25pF	<b>GQM2195G2E2R7CB12#</b>
			3.0pF	±0.1pF	<b>GQM2195G2E3R0BB12#</b>
				±0.25pF	<b>GQM2195G2E3R0CB12#</b>
			3.3pF	±0.1pF	<b>GQM2195G2E3R3BB12#</b>
				±0.25pF	<b>GQM2195G2E3R3CB12#</b>
			3.6pF	±0.1pF	<b>GQM2195G2E3R6BB12#</b>
				±0.25pF	<b>GQM2195G2E3R6CB12#</b>
			3.9pF	±0.1pF	<b>GQM2195G2E3R9BB12#</b>
				±0.25pF	<b>GQM2195G2E3R9CB12#</b>
			4.0pF	±0.1pF	<b>GQM2195G2E4R0BB12#</b>
				±0.25pF	<b>GQM2195G2E4R0CB12#</b>
			4.3pF	±0.1pF	<b>GQM2195G2E4R3BB12#</b>
				±0.25pF	<b>GQM2195G2E4R3CB12#</b>
			4.7pF	±0.1pF	<b>GQM2195G2E4R7BB12#</b>
				±0.25pF	<b>GQM2195G2E4R7CB12#</b>
			5.0pF	±0.1pF	<b>GQM2195G2E5R0BB12#</b>
				±0.25pF	<b>GQM2195G2E5R0CB12#</b>
			5.1pF	±0.25pF	<b>GQM2195G2E5R1CB12#</b>
				±0.5pF	<b>GQM2195G2E5R1DB12#</b>
			5.6pF	±0.25pF	<b>GQM2195G2E5R6BB12#</b>
				±0.5pF	<b>GQM2195G2E5R6CB12#</b>
			6.0pF	±0.25pF	<b>GQM2195G2E6R0CB12#</b>
				±0.5pF	<b>GQM2195G2E6R0DB12#</b>
			6.2pF	±0.25pF	<b>GQM2195G2E6R2CB12#</b>
				±0.5pF	<b>GQM2195G2E6R2DB12#</b>
			6.8pF	±0.25pF	<b>GQM2195G2E6R8CB12#</b>
				±0.5pF	<b>GQM2195G2E6R8DB12#</b>
			7.0pF	±0.25pF	<b>GQM2195G2E7R0CB12#</b>
				±0.5pF	<b>GQM2195G2E7R0DB12#</b>
			7.5pF	±0.25pF	<b>GQM2195G2E7R5CB12#</b>
				±0.5pF	<b>GQM2195G2E7R5DB12#</b>
			8.0pF	±0.25pF	<b>GQM2195G2E8R0CB12#</b>
				±0.5pF	<b>GQM2195G2E8R0DB12#</b>
			8.2pF	±0.25pF	<b>GQM2195G2E8R2CB12#</b>
				±0.5pF	<b>GQM2195G2E8R2DB12#</b>
			9.0pF	±0.25pF	<b>GQM2195G2E9R0CB12#</b>
				±0.5pF	<b>GQM2195G2E9R0DB12#</b>
			9.1pF	±0.25pF	<b>GQM2195G2E9R1CB12#</b>
				±0.5pF	<b>GQM2195G2E9R1DB12#</b>
			10pF	±2%	<b>GQM2195G2E100GB12#</b>
				±5%	<b>GQM2195G2E100JB12#</b>
			11pF	±2%	<b>GQM2195G2E110GB12#</b>
				±5%	<b>GQM2195G2E110JB12#</b>
			12pF	±2%	<b>GQM2195G2E120GB12#</b>
				±5%	<b>GQM2195G2E120JB12#</b>
			13pF	±2%	<b>GQM2195G2E130GB12#</b>
				±5%	<b>GQM2195G2E130JB12#</b>
			15pF	±2%	<b>GQM2195G2E150GB12#</b>
				±5%	<b>GQM2195G2E150JB12#</b>
			16pF	±2%	<b>GQM2195G2E160GB12#</b>
				±5%	<b>GQM2195G2E160JB12#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	250Vdc	X8G	18pF	±2%	<b>GQM2195G2E180GB12#</b>
				±5%	<b>GQM2195G2E180JB12#</b>
			20pF	±2%	<b>GQM2195G2E200GB12#</b>
				±5%	<b>GQM2195G2E200JB12#</b>
			22pF	±2%	<b>GQM2195G2E220GB12#</b>
				±5%	<b>GQM2195G2E220JB12#</b>

2.8×2.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.35mm	500Vdc	COG	1.0pF	±0.1pF	<b>GQM22M5C2H1R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R0CB01#</b>
			1.1pF	±0.1pF	<b>GQM22M5C2H1R1BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R1CB01#</b>
			1.2pF	±0.1pF	<b>GQM22M5C2H1R2BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R2CB01#</b>
			1.3pF	±0.1pF	<b>GQM22M5C2H1R3BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R3CB01#</b>
			1.5pF	±0.1pF	<b>GQM22M5C2H1R5BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R5CB01#</b>
			1.6pF	±0.1pF	<b>GQM22M5C2H1R6BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R6CB01#</b>
			1.8pF	±0.1pF	<b>GQM22M5C2H1R8BB01#</b>
				±0.25pF	<b>GQM22M5C2H1R8CB01#</b>
			2.0pF	±0.1pF	<b>GQM22M5C2H2R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H2R0CB01#</b>
			2.2pF	±0.1pF	<b>GQM22M5C2H2R2BB01#</b>
				±0.25pF	<b>GQM22M5C2H2R2CB01#</b>
			2.4pF	±0.1pF	<b>GQM22M5C2H2R4BB01#</b>
				±0.25pF	<b>GQM22M5C2H2R4CB01#</b>
			2.7pF	±0.1pF	<b>GQM22M5C2H2R7BB01#</b>
				±0.25pF	<b>GQM22M5C2H2R7CB01#</b>
			3.0pF	±0.1pF	<b>GQM22M5C2H3R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H3R0CB01#</b>
			3.3pF	±0.1pF	<b>GQM22M5C2H3R3BB01#</b>
				±0.25pF	<b>GQM22M5C2H3R3CB01#</b>
			3.6pF	±0.1pF	<b>GQM22M5C2H3R6BB01#</b>
				±0.25pF	<b>GQM22M5C2H3R6CB01#</b>
			3.9pF	±0.1pF	<b>GQM22M5C2H3R9BB01#</b>
				±0.25pF	<b>GQM22M5C2H3R9CB01#</b>
			4.0pF	±0.1pF	<b>GQM22M5C2H4R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H4R0CB01#</b>
			4.3pF	±0.1pF	<b>GQM22M5C2H4R3BB01#</b>
				±0.25pF	<b>GQM22M5C2H4R3CB01#</b>
			4.7pF	±0.1pF	<b>GQM22M5C2H4R7BB01#</b>
				±0.25pF	<b>GQM22M5C2H4R7CB01#</b>
			5.0pF	±0.1pF	<b>GQM22M5C2H5R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H5R0CB01#</b>
			5.1pF	±0.1pF	<b>GQM22M5C2H5R1CB01#</b>
				±0.5pF	<b>GQM22M5C2H5R1DB01#</b>
			5.6pF	±0.1pF	<b>GQM22M5C2H6R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H6R0CB01#</b>
			6.0pF	±0.1pF	<b>GQM22M5C2H6R0DB01#</b>
				±0.5pF	<b>GQM22M5C2H6R0DB01#</b>
			6.2pF	±0.1pF	<b>GQM22M5C2H6R2BB01#</b>
				±0.25pF	<b>GQM22M5C2H6R2CB01#</b>
			6.8pF	±0.1pF	<b>GQM22M5C2H8R0BB01#</b>
				±0.25pF	<b>GQM22M5C2H8R0CB01#</b>
			7.0pF	±0.1pF	<b>GQM22M5C2H8R0DB01#</b>
				±0.5pF	<b>GQM22M5C2H8R0DB01#</b>
			7.5pF	±0.1pF	<b>GQM22M5C2H8R5CB01#</b>
				±0.5pF	<b>GQM22M5C2H8R5DB01#</b>
			8.0pF	±0.1pF	<b>GQM22M5C2H8R8CB01#</b>
				±0.5pF	<b>GQM22M5C2H8R8DB01#</b>
			8.2pF	±0.1pF	<b>GQM22M5C2H8R8DB01#</b>
				±0.5pF	<b>GQM22M5C2H8R8DB01#</b>
			9.0pF	±0.1pF	<b>GQM22M5C2H9R0CB01#</b>
				±0.5pF	<b>GQM22M5C2H9R0DB01#</b>
			9.1pF	±0.1pF	<b>GQM22M5C2H9R1CB01#</b>
				±0.5pF	<b>GQM22M5C2H9R1DB01#</b>
			10pF	±2%	<b>GQM22M5C2H100GB12#</b>
				±5%	<b>GQM22M5C2H100JB12#</b>
			11pF	±2%	<b>GQM22M5C2H110GB12#</b>
				±5%	<b>GQM22M5C2H110JB12#</b>
			12pF	±2%	<b>GQM22M5C2H120GB12#</b>
				±5%	<b>GQM22M5C2H120JB12#</b>
			13pF	±2%	<b>GQM22M5C2H130GB12#</b>
				±5%	<b>GQM22M5C2H130JB12#</b>
			15pF	±2%	<b>GQM22M5C2H150GB12#</b>
				±5%	<b>GQM22M5C2H150JB12#</b>
			16pF	±2%	<b>GQM22M5C2H160GB12#</b>
				±5%	<b>GQM22M5C2H160JB12#</b>

Part number # indicates the package specification code.

## GQM Series Temperature Compensating Type **High Q** Part Number List

(→ 2.8×2.8mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.35mm	500Vdc	COG	6.0pF	±0.5pF	GQM22M5C2H6R0DB01#	1.35mm	500Vdc	COG	56pF	±5%	GQM22M5C2H560JB01#
			6.2pF	±0.25pF	GQM22M5C2H6R2CB01#				62pF	±2%	GQM22M5C2H620GB01#
				±0.5pF	GQM22M5C2H6R2DB01#					±5%	GQM22M5C2H620JB01#
			6.8pF	±0.25pF	GQM22M5C2H6R8CB01#				68pF	±2%	GQM22M5C2H680GB01#
				±0.5pF	GQM22M5C2H6R8DB01#					±5%	GQM22M5C2H680JB01#
			7.0pF	±0.25pF	GQM22M5C2H7R0CB01#				75pF	±2%	GQM22M5C2H750GB01#
				±0.5pF	GQM22M5C2H7R0DB01#					±5%	GQM22M5C2H750JB01#
			7.5pF	±0.25pF	GQM22M5C2H7R5CB01#				82pF	±2%	GQM22M5C2H820GB01#
				±0.5pF	GQM22M5C2H7R5DB01#					±5%	GQM22M5C2H820JB01#
			8.0pF	±0.25pF	GQM22M5C2H8R0CB01#				91pF	±2%	GQM22M5C2H910GB01#
				±0.5pF	GQM22M5C2H8R0DB01#					±5%	GQM22M5C2H910JB01#
			8.2pF	±0.25pF	GQM22M5C2H8R2CB01#				100pF	±2%	GQM22M5C2H101GB01#
				±0.5pF	GQM22M5C2H8R2DB01#					±5%	GQM22M5C2H101JB01#
			9.0pF	±0.25pF	GQM22M5C2H9R0CB01#						
				±0.5pF	GQM22M5C2H9R0DB01#						
			9.1pF	±0.25pF	GQM22M5C2H9R1CB01#						
				±0.5pF	GQM22M5C2H9R1DB01#						
			10pF	±2%	GQM22M5C2H100GB01#						
				±5%	GQM22M5C2H100JB01#						
			11pF	±2%	GQM22M5C2H110GB01#						
				±5%	GQM22M5C2H110JB01#						
			12pF	±2%	GQM22M5C2H120GB01#						
				±5%	GQM22M5C2H120JB01#						
			13pF	±2%	GQM22M5C2H130GB01#						
				±5%	GQM22M5C2H130JB01#						
			15pF	±2%	GQM22M5C2H150GB01#						
				±5%	GQM22M5C2H150JB01#						
			16pF	±2%	GQM22M5C2H160GB01#						
				±5%	GQM22M5C2H160JB01#						
			18pF	±2%	GQM22M5C2H180GB01#						
				±5%	GQM22M5C2H180JB01#						
			20pF	±2%	GQM22M5C2H200GB01#						
				±5%	GQM22M5C2H200JB01#						
			22pF	±2%	GQM22M5C2H220GB01#						
				±5%	GQM22M5C2H220JB01#						
			24pF	±2%	GQM22M5C2H240GB01#						
				±5%	GQM22M5C2H240JB01#						
			27pF	±2%	GQM22M5C2H270GB01#						
				±5%	GQM22M5C2H270JB01#						
			30pF	±2%	GQM22M5C2H300GB01#						
				±5%	GQM22M5C2H300JB01#						
			33pF	±2%	GQM22M5C2H330GB01#						
				±5%	GQM22M5C2H330JB01#						
			36pF	±2%	GQM22M5C2H360GB01#						
				±5%	GQM22M5C2H360JB01#						
			39pF	±2%	GQM22M5C2H390GB01#						
				±5%	GQM22M5C2H390JB01#						
			43pF	±2%	GQM22M5C2H430GB01#						
				±5%	GQM22M5C2H430JB01#						
			47pF	±2%	GQM22M5C2H470GB01#						
				±5%	GQM22M5C2H470JB01#						
			51pF	±2%	GQM22M5C2H510GB01#						
				±5%	GQM22M5C2H510JB01#						
			56pF	±2%	GQM22M5C2H560GB01#						

Part number # indicates the package specification code.

## High Effective Capacitance & High Allowable Ripple Current Monolithic Ceramic Capacitor

### GR3 Series



Anti-noise

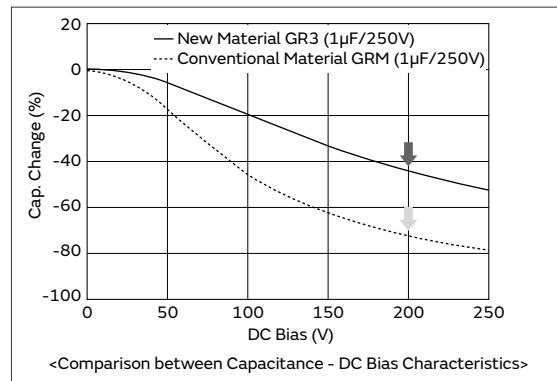
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This is a general purpose high ripple resistance product excellent in DC bias characteristics.

#### Features

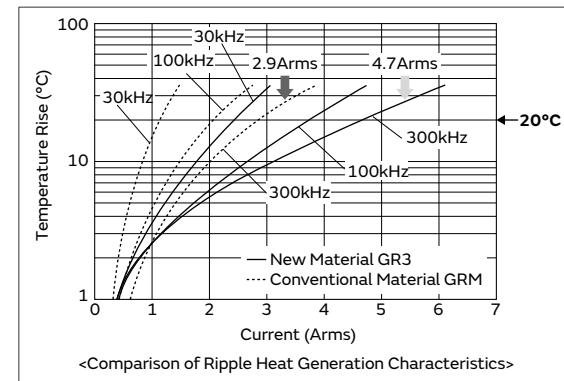
- ① When a DC bias is applied, a capacitance higher than conventional products (X7R characteristics) can be acquired.

About twice the capacitance can be secured when DC200V is applied.



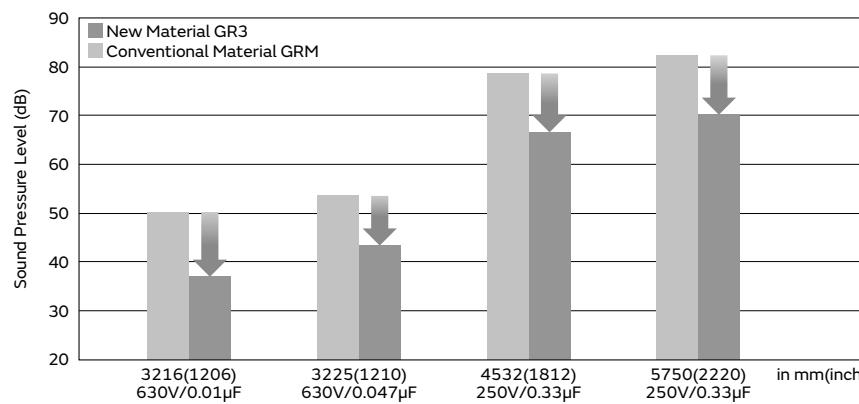
- ② Improved ripple resistance performance compared to conventional products (X7R characteristics).

In the case of a product with a capacitance of 1μF, when the exothermic temperature reaches 20°C at frequency f=300kHz, the amount of resistance of a product with conventional material is 2.9Arms; however, the new material is 4.7Arms.



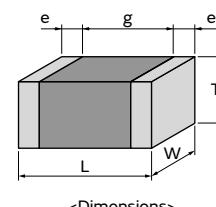
- ③ This product has a noise reduction effect.

Since dielectric materials which enable a reduction of noise are used, this product is more effective for reducing noise compared to the general purpose GRM series.



#### Specifications

Size (mm)	2.0×1.25mm to 5.7×5.0mm
Rated Voltage	250Vdc to 630Vdc
Capacitance	10000pF to 1.0μF
Main Applications	For PFC (Power Factor Correction) Circuits of Power Supplies, EMI Suppression and Smoothing Circuits



This catalog contains only a portion of the product lineup.  
 Please refer to the capacitor search tool on the Murata Web site for details.

## GR3 Series High Dielectric Constant Type Part Number List

### 2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	250Vdc	X7T	10000pF	±10%	GR321AD72E103KW01#
			15000pF	±10%	GR321AD72E153KW01#
1.45mm	250Vdc	X7T	22000pF	±10%	GR321BD72E223KW03#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
2.7mm	250Vdc	X7T	1.0μF	±10%	GR355XD72E105KW05#

### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.0mm	450Vdc	X7T	10000pF	±10%	GR331AD72W103KW01#
			15000pF	±10%	GR331AD72W153KW01#
1.25mm	250Vdc	X7T	33000pF	±10%	GR331AD72E333KW01#
			630Vdc	±10%	GR331BD72J103KW01#
	450Vdc	X7T	22000pF	±10%	GR331BD72W223KW01#
			33000pF	±10%	GR331BD72W333KW01#
1.8mm	250Vdc	X7T	47000pF	±10%	GR331BD72E473KW01#
	630Vdc	X7T	15000pF	±10%	GR331CD72J153KW03#
	450Vdc	X7T	47000pF	±10%	GR331CD72W473KW03#
	250Vdc	X7T	68000pF	±10%	GR331CD72E683KW03#

### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	630Vdc	X7T	22000pF	±10%	GR332QD72J223KW01#
			250Vdc	±10%	GR332QD72E104KW01#
2.0mm	630Vdc	X7T	33000pF	±10%	GR332DD72J333KW01#
			47000pF	±10%	GR332DD72J473KW01#
	450Vdc	X7T	68000pF	±10%	GR332DD72W683KW01#
			0.10μF	±10%	GR332DD72W104KW01#
	250Vdc	X7T	0.15μF	±10%	GR332DD72E154KW01#

### 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	250Vdc	X7T	0.22μF	±10%	GR343QD72E224KW01#
2.0mm	630Vdc	X7T	68000pF	±10%	GR343DD72J683KW01#
	450Vdc	X7T	0.15μF	±10%	GR343DD72W154KW01#
	250Vdc	X7T	0.33μF	±10%	GR343DD72E334KW01#

### 5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
2.0mm	630Vdc	X7T	0.10μF	±10%	GR355DD72J104KW01#
			0.15μF	±10%	GR355DD72J154KW01#
	450Vdc	X7T	0.22μF	±10%	GR355DD72W224KW01#
			0.33μF	±10%	GR355DD72W334KW01#
			0.47μF	±10%	GR355DD72W474KW01#
	250Vdc	X7T	0.47μF	±10%	GR355DD72E474KW01#
			0.68μF	±10%	GR355DD72E684KW01#
2.7mm	630Vdc	X7T	0.22μF	±10%	GR355XD72J224KW05#

Part number # indicates the package specification code.

## Soft termination Monolithic Ceramic Capacitors

### GRJ Series



Deflecting crack

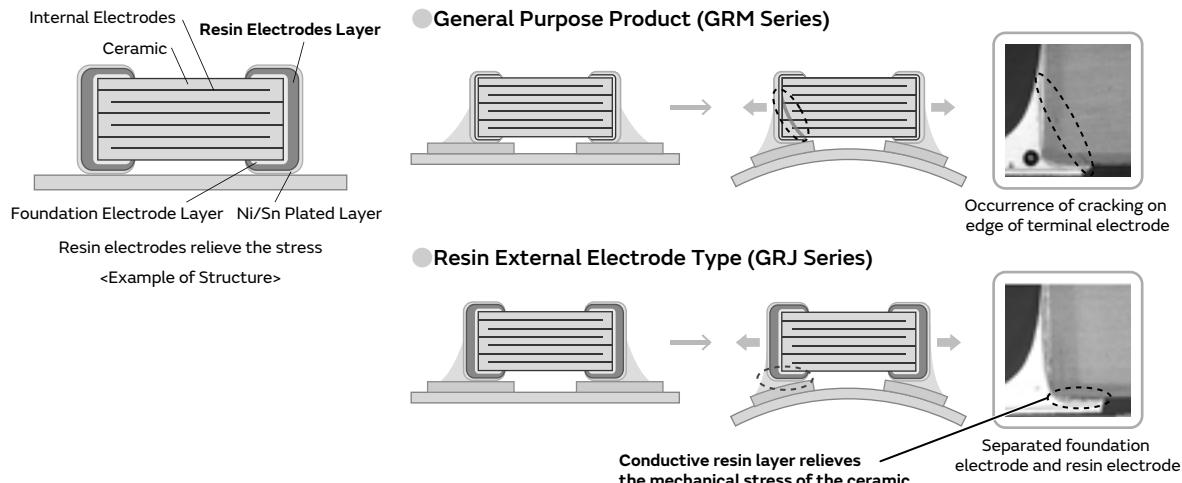
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The resin external electrodes prevent the occurrence of cracking caused by deflection stress after board mounting!

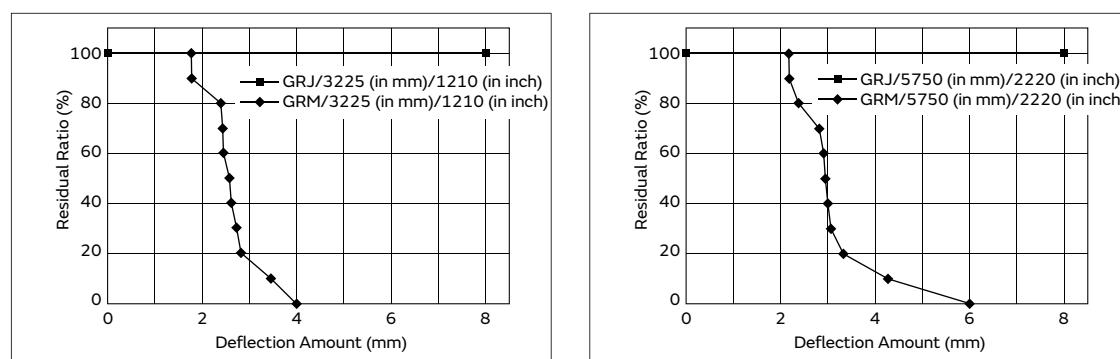
## Features

### 1 The resin external electrodes suppress cracks by board deflection.

Cracking of the ceramic element is suppressed by the resin of the external electrodes, which releases the stress.



### 2 Suppresses the occurrence of cracking caused by deflection stress at the time of board mounting, etc.

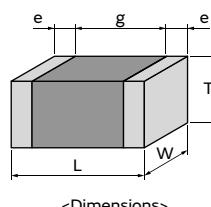


Due to the specification of the measuring instrument, measurements can be performed up to 8mm.

### 3 Ideal for consumer and industrial electronic equipment, etc. where there heat stress, vibration and impact are applied.

## Specifications

Size (mm)	0.6×0.3mm to 5.7×5.0mm
Rated Voltage	6.3Vdc to 1000Vdc
Capacitance	220pF to 47μF
Main Applications	Consumer & Industrial Electronic Equipment



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## GRJ Series High Dielectric Constant Type Part Number List

**1.6×0.8mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.9mm	100Vdc	X7R	1000pF	±10%	GRJ188R72A102KE11#	
				±20%	GRJ188R72A102ME11#	
			2200pF	±10%	GRJ188R72A222KE11#	
				±20%	GRJ188R72A222ME11#	
			4700pF	±10%	GRJ188R72A472KE11#	
				±20%	GRJ188R72A472ME11#	
			10000pF	±10%	GRJ188R72A103KE11#	
				±20%	GRJ188R72A103ME11#	
			22000pF	±10%	GRJ188R72A223KE11#	
				±20%	GRJ188R72A223ME11#	
			0.10μF	±10%	GRJ188R72A104KE11#	
				±20%	GRJ188R72A104ME11#	
	50Vdc	X7R	1000pF	±10%	GRJ188R71H102KE11#	
				±20%	GRJ188R71H102ME11#	
			2200pF	±10%	GRJ188R71H222KE11#	
				±20%	GRJ188R71H222ME11#	
			4700pF	±10%	GRJ188R71H472KE11#	
				±20%	GRJ188R71H472ME11#	
			10000pF	±10%	GRJ188R71H103KE11#	
				±20%	GRJ188R71H103ME11#	
			22000pF	±10%	GRJ188R71H223KE11#	
				±20%	GRJ188R71H223ME11#	
			47000pF	±10%	GRJ188R71H473KE11#	
				±20%	GRJ188R71H473ME11#	
			0.10μF	±10%	GRJ188R71H104KE11#	
				±20%	GRJ188R71H104ME11#	
			0.22μF	±10%	GRJ188R71H224KE11#	
				±20%	GRJ188R71H224ME11#	
35Vdc	X5R	1.0μF	±10%	GRJ188R6YA105KE11#		
			47000pF	±10%	GRJ188R71E473KE11#	
				±20%	GRJ188R71E473ME11#	
			0.22μF	±10%	GRJ188R71E224KE11#	
				±20%	GRJ188R71E224ME11#	
25Vdc	X7R	1.0μF	±10%	GRJ188R71E105KE11#		
			0.22μF	±10%	GRJ188R71E105ME11#	
				±20%	GRJ188R71E105ME11#	
		0.47μF	±10%	GRJ188R71C474KE11#		
			0.47μF	±20%	GRJ188R71C474ME11#	
16Vdc	X7R	0.47μF	±10%	GRJ188R71C474KE11#		
			±20%	GRJ188R71C474ME11#		
			2.2μF	±10%	GRJ188R70J225KE11#	
				±20%	GRJ188R70J225ME11#	
6.3Vdc	X7R	2.2μF	±10%	GRJ188R70J225KE11#		
			2.2μF	±20%	GRJ188R70J225ME11#	
1.0mm	6.3Vdc	X7S	4.7μF	±10%	GRJ188C70J475KE11#	
				±20%	GRJ188C70J475ME11#	

**2.0×1.25mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	100Vdc	X7R	1000pF	±10%	GRJ216R72A102KE01#	
				±20%	GRJ216R72A102ME01#	
			2200pF	±10%	GRJ216R72A222KE01#	
				±20%	GRJ216R72A222ME01#	
			4700pF	±10%	GRJ216R72A472KE01#	
				±20%	GRJ216R72A472ME01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.7mm	100Vdc	X7R	10000pF	±10%	GRJ216R72A103KE01#	
				±20%	GRJ216R72A103ME01#	
			22000pF	±10%	GRJ216R72A223KE01#	
				±20%	GRJ216R72A223ME01#	
			4700pF	±10%	GRJ216R71H471KE01#	
				±20%	GRJ216R71H471ME01#	
			1000pF	±10%	GRJ216R71H102KE01#	
				±20%	GRJ216R71H102ME01#	
			2200pF	±10%	GRJ216R71H222KE01#	
				±20%	GRJ216R71H222ME01#	
			4700pF	±10%	GRJ216R71H472KE01#	
				±20%	GRJ216R71H472ME01#	
			10000pF	±10%	GRJ216R71H103KE01#	
				±20%	GRJ216R71H103ME01#	
			22000pF	±10%	GRJ216R71H223KE01#	
				±20%	GRJ216R71H223ME01#	
			47000pF	±10%	GRJ216R71H473KE01#	
				±20%	GRJ216R71H473ME01#	
	250Vdc	X7R	1000pF	±10%	GRJ21AR72E102KWJ1#	
				±20%	GRJ21AR72E152KWJ1#	
			220pF	±10%	GRJ21AR72E222KWJ1#	
				±20%	GRJ21AR72E332KWJ1#	
			470pF	±10%	GRJ21AR72E472KWJ1#	
				±20%	GRJ21AR72E682KWJ1#	
1.0mm	250Vdc	X7R	1000pF	±10%	GRJ21BR72E103KWJ3#	
				±20%	GRJ21BR72E153KWJ3#	
			1500pF	±10%	GRJ21BR72E223KWJ3#	
				±20%	GRJ21BR72E333KWJ3#	
			2200pF	±10%	GRJ21BR72E473KWJ3#	
1.45mm	250Vdc	X7R	4700pF	±10%	GRJ21BR72A473KE01#	
				±20%	GRJ21BR72A473ME01#	
			0.10μF	±10%	GRJ21BR72A104KE01#	
				±20%	GRJ21BR72A104ME01#	
			0.22μF	±10%	GRJ21BR71H473KE01#	
				±20%	GRJ21BR71H473ME01#	
1.0mm	100Vdc	X7R	47000pF	±10%	GRJ21BR71H473KE01#	
				±20%	GRJ21BR71H473ME01#	
			0.10μF	±10%	GRJ21BR72A104KE01#	
				±20%	GRJ21BR72A104ME01#	
			0.22μF	±10%	GRJ21BR71H473KE01#	
				±20%	GRJ21BR71H473ME01#	
1.0mm	100Vdc	X7R	1.0μF	±10%	GRJ21BR71H105KE01#	
				±20%	GRJ21BR71H105ME01#	
			2.2μF	±10%	GRJ21BR71E225KE01#	
				±20%	GRJ21BR71E225ME01#	
			4.7μF	±10%	GRJ21BR71C475KE01#	
				±20%	GRJ21BR71C475ME01#	
1.0mm	10Vdc	X7R	10μF	±10%	GRJ21BR71A106KE01#	
				±20%	GRJ21BR71A106ME01#	
			1.0μF	±10%	GRJ21BC72A105KE11#	
				±20%	GRJ21BC72A105ME11#	
			1.0μF	±10%	GRJ21BR71E105ME11#	
				±20%	GRJ21BR71E225ME01#	
1.5mm	100Vdc	X7S	1.0μF	±10%	GRJ21BC72A105KE11#	
				±20%	GRJ21BC72A105ME11#	
			2.2μF	±10%	GRJ21BC72A472KE01#	
				±20%	GRJ21BC72A472ME01#	
			4.7μF	±10%	GRJ21BC72A105KE11#	
				±20%	GRJ21BC72A105ME11#	

Part number # indicates the package specification code.

## GRJ Series High Dielectric Constant Type Part Number List

### 3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	X7R	0.10μF	±10%	GRJ319R72A104KE11#
				±20%	GRJ319R72A104ME11#
	50Vdc	X7R	0.10μF	±10%	GRJ319R71H104KE11#
				±20%	GRJ319R71H104ME11#
	1.25mm	X7R	470pF	±10%	GRJ31BR73A471KWJ1#
				±10%	GRJ31BR73A681KWJ1#
				±10%	GRJ31BR73A102KWJ1#
				±10%	GRJ31BR73A152KWJ1#
				±10%	GRJ31BR73A222KWJ1#
				±10%	GRJ31BR73A332KWJ1#
				±10%	GRJ31BR73A472KWJ1#
				±10%	GRJ31BR72J102KWJ1#
1.35mm	630Vdc	X7R	1500pF	±10%	GRJ31BR72J152KWJ1#
				±10%	GRJ31BR72J222KWJ1#
				±10%	GRJ31BR72J332KWJ1#
				±10%	GRJ31BR72J472KWJ1#
				±10%	GRJ31BR72J682KWJ1#
				±10%	GRJ31BR72J103KWJ1#
				±10%	GRJ31BR72E153KWJ1#
	250Vdc	X7R	22000pF	±10%	GRJ31BR72E223KWJ1#
				±10%	GRJ31BR72E683KWJ1#
				±10%	GRJ31MR72A224KE01#
	1.8mm	100Vdc	X7R	±10%	GRJ31MR72A224ME01#
				±20%	GRJ31MR72A224ME01#
		50Vdc	X7R	±10%	GRJ31MR71H104KE01#
				±20%	GRJ31MR71H104ME01#
				±10%	GRJ31MR71H224KE01#
				±20%	GRJ31MR71H224ME01#
				±10%	GRJ31MR71H474KE01#
				±20%	GRJ31MR71H474ME01#
				±10%	GRJ31MR71H105KE01#
		25Vdc	X7R	±20%	GRJ31MR71H105ME01#
				±10%	GRJ31MR71E225KE11#
				±20%	GRJ31MR71E225ME11#
		16Vdc	X7R	±10%	GRJ31MR71C225KE11#
				±20%	GRJ31MR71C225ME11#
				±10%	GRJ31MR71C225ME11#
1.9mm	100Vdc	X7R	6800pF	±10%	GRJ31CR73A682KWJ3#
				±20%	GRJ31CR73A103KWJ3#
			15000pF	±10%	GRJ31CR72J153KWJ3#
				±20%	GRJ31CR72J223KWJ3#
	250Vdc	X7R	33000pF	±10%	GRJ31CR72E333KWJ3#
				±20%	GRJ31CR72E473KWJ3#
			47000pF	±10%	GRJ31CR72E473KWJ3#
				±10%	GRJ31CR72E104KWJ3#
			0.10μF	±10%	GRJ31CR72E104ME11#
				±20%	GRJ31CR72E104ME11#
50Vdc	100Vdc	X7R	1.0μF	±10%	GRJ31CR72A105KE11#
				±20%	GRJ31CR72A105ME11#
			2.2μF	±10%	GRJ31CR71H105KE11#
				±20%	GRJ31CR71H225ME11#
	25Vdc	X7R	4.7μF	±10%	GRJ31CR71H475KE11#
				±20%	GRJ31CR71H475ME11#
			10μF	±10%	GRJ31CR71E106KE11#
				±20%	GRJ31CR71E106ME11#

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.9mm	16Vdc	X7R	4.7μF	±10%	GRJ31CR71C475KE11#
				±20%	GRJ31CR71C475ME11#
			10μF	±10%	GRJ31CR71C106KE11#
				±20%	GRJ31CR71C106ME11#
	10Vdc	X7R	10μF	±10%	GRJ31CR71A106KE11#
				±20%	GRJ31CR71A106ME11#
			22μF	±10%	GRJ31CR71A226KE12#
				±20%	GRJ31CR71A226ME12#
6.3Vdc	X7R	22μF	±10%	GRJ31CR70J226KE12#	
			±20%	GRJ31CR70J226ME12#	

### 3.2×2.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	1000Vdc	X7R	6800pF	±10%	GRJ32QR73A682KWJ1#
				±10%	GRJ32QR73A103KWJ1#
			22000pF	±10%	GRJ32QR72J223KWJ1#
				±10%	GRJ32QR72E683KWJ1#
	630Vdc	X7R	68000pF	±10%	GRJ32QR72E154KWJ1#
				±10%	GRJ32QR72E154ME1#
			0.15μF	±10%	GRJ32QR72E154KWJ1#
				±10%	GRJ32QR72E154ME1#
2.0mm	1000Vdc	X7R	15000pF	±10%	GRJ32DR73A153KWJ1#
				±10%	GRJ32DR73A223KWJ1#
			47000pF	±10%	GRJ32DR72J473KWJ1#
				±10%	GRJ32DR72E104KWJ1#
	250Vdc	X7R	0.10μF	±10%	GRJ32DR72E224KWJ1#
				±10%	GRJ32DR72E224ME1#
			0.22μF	±10%	GRJ32DR72E224KWJ1#
				±10%	GRJ32DR72E224ME1#
2.3mm	100Vdc	X7R	2.2μF	±10%	GRJ32DR72A225KE11#
				±20%	GRJ32DR72A225ME11#
		X7S	4.7μF	±10%	GRJ32DC72A475KE11#
				±20%	GRJ32DC72A475ME11#
	2.8mm	X7R	4.7μF	±10%	GRJ32ER71H475KE11#
				±20%	GRJ32ER71H475ME11#
			10μF	±10%	GRJ32ER71H106KE11#
				±20%	GRJ32ER71H106ME11#
2.5Vdc	10Vdc	X7R	10μF	±10%	GRJ32EC71H106KE11#
				±20%	GRJ32EC71H106ME11#
			10μF	±10%	GRJ32EC71H106KE11#
				±20%	GRJ32EC71H106ME11#
	16Vdc	X7R	22μF	±10%	GRJ32ER71C226KE11#
				±20%	GRJ32ER71C226ME11#
			22μF	±10%	GRJ32ER71A226KE11#
				±20%	GRJ32ER71A226ME11#
1.9mm	10Vdc	X7R	47μF	±10%	GRJ32ER71A476KE11#
				±20%	GRJ32ER71A476ME11#
			47μF	±10%	GRJ32ER70J476KE11#
				±20%	GRJ32ER70J476ME11#

### 4.5×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
1.5mm	630Vdc	X7R	68000pF	±10%	GRJ43QR72J683KWJ1#
				±10%	GRJ43QR72E154KWJ1#
2.0mm	1000Vdc	X7R	33000pF	±10%	GRJ43DR73A333KWJ1#
				±10%	GRJ43DR73A333ME11#

Part number # indicates the package specification code.

## GRJ Series High Dielectric Constant Type Part Number List

(→ 4.5×3.2mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	1000Vdc	X7R	47000pF	±10%	GRJ43DR73A473KWJ1#	
	630Vdc	X7R	0.10µF	±10%	GRJ43DR72J104KWJ1#	
	250Vdc	X7R	0.22µF	±10%	GRJ43DR72E224KWJ1#	
			0.33µF	±10%	GRJ43DR72E334KWJ1#	
			0.47µF	±10%	GRJ43DR72E474KWJ1#	

5.7×5.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	1000Vdc	X7R	68000pF	±10%	GRJ55DR73A683KWJ1#	
			0.10µF	±10%	GRJ55DR73A104KWJ1#	
	630Vdc	X7R	0.15µF	±10%	GRJ55DR72J154KWJ1#	
			0.22µF	±10%	GRJ55DR72J224KWJ1#	
	250Vdc	X7R	0.33µF	±10%	GRJ55DR72E334KWJ1#	
			0.47µF	±10%	GRJ55DR72E474KWJ1#	
			0.68µF	±10%	GRJ55DR72E684KWJ1#	
			1.0µF	±10%	GRJ55DR72E105KWJ1#	

## 8-Terminal Low ESL Monolithic Ceramic Capacitor

### LLA Series



Low  
ESL

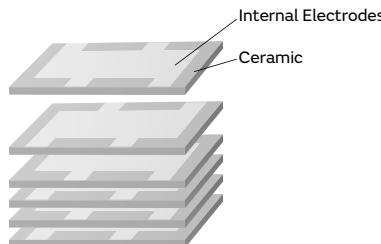
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### 8-Terminal Type Low ESL Capacitor Ideal for Power Supply Decoupling of High-speed Operation IC

#### Features

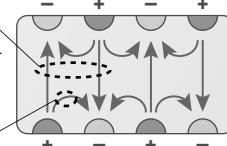
##### 1 Ultra-low ESL

Since the equivalent series inductance (ESL) is very low with excellent high frequency characteristics due to the design structure, this capacitor is ideal for power supply decoupling of high-speed operation IC.



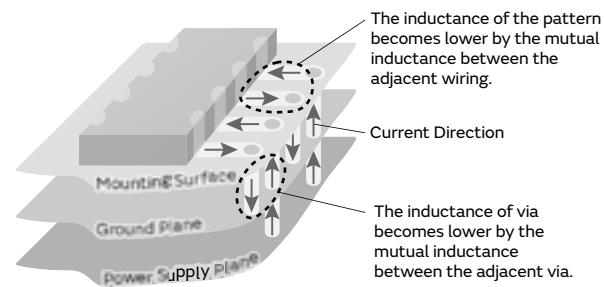
<Example of Structure>

Since the current is the reverse direction, the ESL becomes lower with mutual inductance.



The current flows into the adjacent electrode, which reduces the current loop and lowers the ESL.

<Effectiveness of Cancelling Out Inductance by Mutual Inductance>



<Effectiveness of Suppressing Inductance when Mounting a Multi-terminal Capacitor>

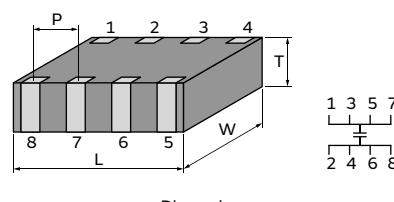
The inductance for the boards also becomes lower, not only the capacitor.

##### 2 A maximum operating temperature up to 125°C

This product is applicable to high temperatures (X7\* characteristics); however, Murata also offers numerous thin type products, which are ideal as decoupling capacitors on IC package.

#### Specifications

Size (mm)	1.6×0.8mm to 3.2×1.6mm
Rated Voltage	4Vdc to 25Vdc
Capacitance	10000pF to 4.7μF
Main Applications	Application processor/CPU/GPU



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## LLA Series High Dielectric Constant Type Part Number List

1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	4Vdc	X7S	0.10µF	±20%	LLA185C70G104MA01#	
			0.22µF	±20%	LLA185C70G224MA01#	
			0.47µF	±20%	LLA185C70G474MA01#	
			2.2µF	±20%	LLA185C70G225ME16#	

2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	25Vdc	X7R	10000pF	±20%	LLA215R71E103MA14#	
			22000pF	±20%	LLA215R71E223MA14#	
	16Vdc	X7R	47000pF	±20%	LLA215R71C473MA14#	
			0.10µF	±20%	LLA215R71C104MA14#	
	10Vdc	X7R	0.22µF	±20%	LLA215R71A224MA14#	
	6.3Vdc	X7R	0.47µF	±20%	LLA215R70J474MA14#	
	4Vdc	X7S	1.0µF	±20%	LLA215C70G105MA14#	
			4.7µF	±20%	LLA215C70G475ME19#	
0.95mm	25Vdc	X7R	10000pF	±20%	LLA219R71E103MA01#	
			22000pF	±20%	LLA219R71E223MA01#	
			47000pF	±20%	LLA219R71E473MA01#	
	16Vdc	X7R	0.10µF	±20%	LLA219R71C104MA01#	
			0.22µF	±20%	LLA219R71C224MA01#	
	10Vdc	X7R	0.47µF	±20%	LLA219R71A474MA01#	
	6.3Vdc	X7R	1.0µF	±20%	LLA219R70J105MA01#	
	4Vdc	X7S	2.2µF	±20%	LLA219C70G225MA01#	

3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.22µF	±20%	LLA315R71C224MA14#	
	10Vdc	X7R	0.47µF	±20%	LLA315R71A474MA14#	
	6.3Vdc	X7R	1.0µF	±20%	LLA315R70J105MA14#	
			2.2µF	±20%	LLA315R70J225MA14#	
0.95mm	16Vdc	X7R	0.47µF	±20%	LLA319R71C474MA01#	
	10Vdc	X7R	1.0µF	±20%	LLA319R71A105MA01#	
1.25mm	16Vdc	X7R	1.0µF	±20%	LLA31MR71C105MA01#	
	10Vdc	X7R	2.2µF	±20%	LLA31MR71A225MA01#	

## LW Reversed Type Low ESL Monolithic Ceramic Capacitors

### LLL Series

Low  
ESL

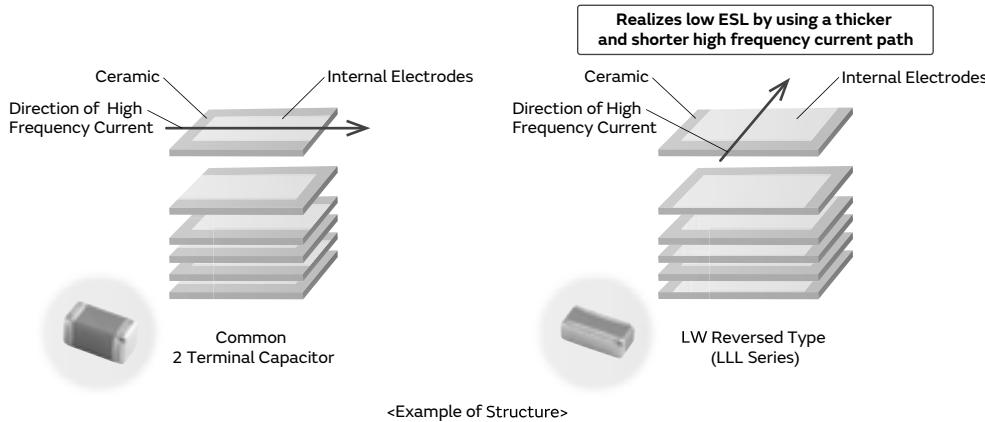
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This low ESL capacitor is ideal for power supply decoupling of high-speed operation electronic equipment.

## Features

### 1 Low ESL

Since the equivalent series inductance (ESL) is low and excellent in high frequency characteristics, this capacitor is suitable for power supply decoupling of high-speed operation electronic equipment.



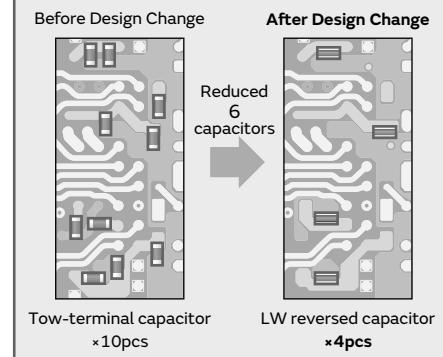
### 2 Contributes to a reduction in the number of components.

The number of components can be reduced by using low ESL capacitors, while maintaining functions equivalent to general purpose capacitors (GRM Series).

Murata proposes the use of the LLL series to reduce the number of components and high costs. Simulation is also possible.

› Proposal for Cost Reductions

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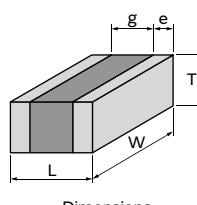


### 3 A maximum operating temperature up to 125°C

We also offer an abundant lineup of X7\* characteristics that can be used in high temperature locations, such as IC packages.

## Specifications

Size (mm)	0.5×1.0mm to 1.6×3.2mm
Rated Voltage	2.5Vdc to 50Vdc
Capacitance	2200pF to 10μF
Main Applications	Application processor/CPU/GPU



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## LLL Series High Dielectric Constant Type Low ESL Part Number List

### 0.5×1.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.35mm	6.3Vdc	X6S	0.10μF	±20%	LLL153C80J104ME01#	
			0.22μF	±20%	LLL153C80J224ME14#	
	4Vdc	X7S	0.47μF	±20%	LLL153C70G474ME17#	
			1.0μF	±20%	LLL153C80G105ME21#	

### 0.6×1.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.45mm	4Vdc	X5R	4.3μF	±20%	LLL1U4R60G435ME22#	D1

### 0.8×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.5mm	25Vdc	X7R	10000pF	±20%	LLL185R71E103MA11#	
	16Vdc	X7R	22000pF	±20%	LLL185R71C223MA11#	
			47000pF	±20%	LLL185R71C473MA11#	
	10Vdc	X7R	0.10μF	±20%	LLL185R71A104MA11#	
			0.22μF	±20%	LLL185C70G224MA11#	
0.55mm	4Vdc	X7S	2.2μF	±20%	LLL185C70G225ME01#	
0.6mm	50Vdc	X7R	2200pF	±20%	LLL185R71H222MA01#	
			4700pF	±20%	LLL185R71H472MA01#	
	25Vdc	X7R	10000pF	±20%	LLL185R71E103MA01#	
			22000pF	±20%	LLL185R71E223MA01#	
	16Vdc	X7R	47000pF	±20%	LLL185R71C473MA01#	
	10Vdc	X7R	0.10μF	±20%	LLL185R71A104MA01#	
			0.22μF	±20%	LLL185R71A224MA01#	
	4Vdc	X7S	0.47μF	±20%	LLL185C70G474MA01#	

### 1.25×2.0mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.5mm	50Vdc	X7R	10000pF	±20%	LLL215R71H103MA11#	
	25Vdc	X7R	22000pF	±20%	LLL215R71E223MA11#	
	16Vdc	X7R	47000pF	±20%	LLL215R71C473MA11#	
			0.10μF	±20%	LLL215R71C104MA11#	
	10Vdc	X7R	0.22μF	±20%	LLL215R71A224MA11#	
	6.3Vdc	X7R	0.47μF	±20%	LLL215R70J474MA11#	
	4Vdc	X7S	1.0μF	±20%	LLL215C70G105MA11#	
0.7mm	50Vdc	X7R	10000pF	±20%	LLL216R71H103MA01#	
			22000pF	±20%	LLL216R71H223MA01#	
	25Vdc	X7R	47000pF	±20%	LLL216R71E473MA01#	
			0.10μF	±20%	LLL216R71E104MA01#	
	10Vdc	X7R	0.22μF	±20%	LLL216R71A224MA01#	
0.95mm	16Vdc	X7R	0.22μF	±20%	LLL219R71C224MA01#	
	10Vdc	X7R	0.47μF	±20%	LLL219R71A474MA01#	
			1.0μF	±20%	LLL219R71A105MA01#	
	4Vdc	X7S	2.2μF	±20%	LLL219C70G225MA01#	

### 1.6×3.2mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.5mm	50Vdc	X7R	10000pF	±20%	LLL315R71H103MA11#	
			22000pF	±20%	LLL315R71H223MA11#	
	25Vdc	X7R	47000pF	±20%	LLL315R71E473MA11#	
			0.10μF	±20%	LLL315R71E104MA11#	
	16Vdc	X7R	0.22μF	±20%	LLL315R71C224MA11#	
	10Vdc	X7R	0.47μF	±20%	LLL315R71A474MA11#	
	50Vdc	X7R	10000pF	±20%	LLL317R71H103MA01#	
			22000pF	±20%	LLL317R71H223MA01#	
0.8mm	50Vdc	X7R	47000pF	±20%	LLL317R71H473MA01#	
			0.10μF	±20%	LLL317R71E104MA01#	
			0.22μF	±20%	LLL317R71C224MA01#	
	25Vdc	X7R	0.47μF	±20%	LLL317R71C474MA01#	
	16Vdc	X7R	1.0μF	±20%	LLL317R71A105MA01#	
	10Vdc	X7R	2.2μF	±20%	LLL317R70J225MA01#	
	50Vdc	X7R	0.10μF	±20%	LLL31MR71H104MA01#	
			0.22μF	±20%	LLL31MR71E224MA01#	
1.25mm	25Vdc	X7R	0.47μF	±20%	LLL31MR71E474MA01#	
			1.0μF	±20%	LLL31MR71C105MA01#	
	16Vdc	X7R	2.2μF	±20%	LLL31MR71A225MA01#	
	6.3Vdc	X7R	4.7μF	±20%	LLL31MR70J475MA01#	
			10μF	±20%	LLL31MR60J106ME01#	

Part number # indicates the package specification code.

## 10-Terminal Type Low ESL Monolithic Ceramic Capacitor

### LLM Series



Low  
ESL

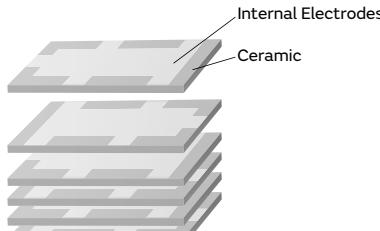
WEB

## 10-Terminal Type Low ESL Capacitor Ideal for Power Supply Decoupling of High-speed Operation IC

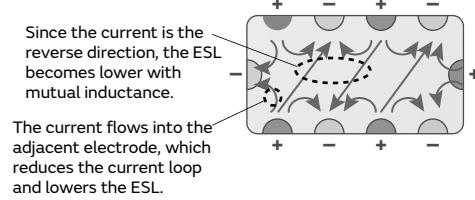
### Features

#### 1 This is the lowest ESL LW reversed type capacitor.

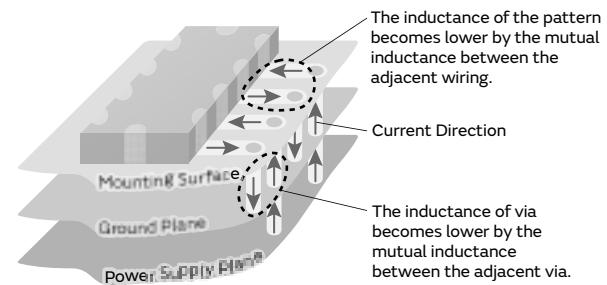
Since the equivalent series inductance (ESL) of this product is even lower than the LLA series (8-terminal product) with excellent high frequency characteristics, this capacitor is ideal for power supply decoupling of high-speed operation IC.



<Example of Structure>



<Effectiveness of Cancelling Out Inductance by Mutual Inductance>



<Effectiveness of Suppressing Inductance when Mounting a Multi-terminal Capacitor>

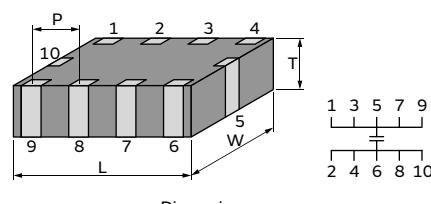
The inductance for the boards also becomes lower, not only the capacitor.

#### 2 A maximum operating temperature up to 125°C

This product is applicable to high temperatures (X7\* characteristics); however, Murata also offers numerous thin type products, which are ideal as decoupling capacitors on IC package.

### Specifications

Size (mm)	2.0×1.25mm to 3.2×1.6mm
Rated Voltage	4Vdc to 16Vdc
Capacitance	0.10μF to 2.2μF
Main Applications	Application processor/CPU/GPU



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## LLM Series High Dielectric Constant Type Low ESL Part Number List

2.0×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	6.3Vdc	X7R	0.22μF	±20%	LLM215R70J224MA11#	
			0.47μF	±20%	LLM215R70J474MA11#	
	4Vdc	X7S	1.0μF	±20%	LLM215C70G105MA11#	

3.2×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	16Vdc	X7R	0.10μF	±20%	LLM315R71C104MA11#	
			0.22μF	±20%	LLM315R71C224MA11#	
	10Vdc	X7R	0.47μF	±20%	LLM315R71A474MA11#	
	6.3Vdc	X7R	2.2μF	±20%	LLM315R70J225MA11#	

## ESR Controlled Type Low ESL Monolithic Ceramic Capacitors

### LLR Series



Low  
ESL

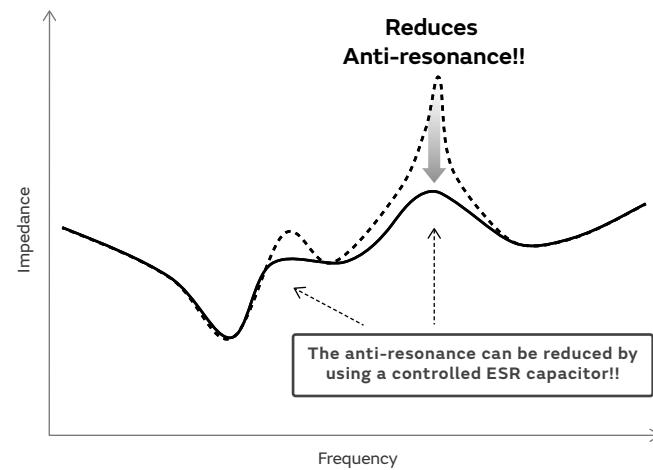
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### ESR Controlled Type Low ESL Capacitors Equipped with Anti-resonance Control Function

#### Features

##### 1 Reduces Anti-resonance

This capacitor is controlled so that the equivalent series resistance (ESR) becomes slightly higher, and is effective in reducing the anti-resonance that occurs when capacitor arrays are used.



##### 2 Lineup of capacitors with ESR values from 100-1,000mΩ.

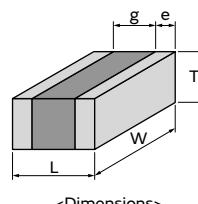
According to the conditions of the anti-resonance, the most suitable ESR value can be selected from 4 types.

##### 3 Low ESL

This ESR controlled type capacitor has excellent high frequency characteristics, with low equivalent series inductance (ESL). This is also ideal as a decoupling component.

#### Specifications

Size (mm)	0.8×1.6mm
Rated Voltage	4Vdc
Capacitance	1.0μF
Main Applications	Network processor/ASIC/PMIC



This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.

## LLR Series High Dielectric Constant Type Low ESL Part Number List

0.8×1.6mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.55mm	4Vdc	X7S	1.0μF	±20%	LLR185C70G105ME01#	
				±20%	LLR185C70G105ME03#	
				±20%	LLR185C70G105ME05#	
				±20%	LLR185C70G105ME07#	

Part number # indicates the package specification code.

**muRata**

Metal terminal type monolithic ceramic capacitors

# KRM Series



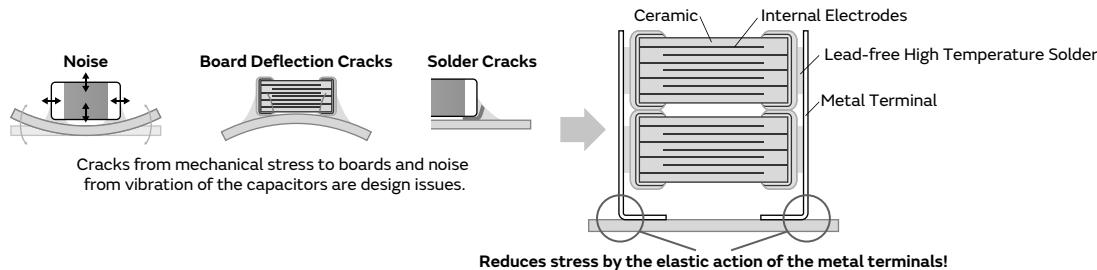
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Bonding the metal terminals to external electrodes solves design issues by mounting large size MLCC!

## Features

### 1 Bond metal terminals to the external electrodes of chips.

The stress applied to the chip is relieved by the elastic action of the metal terminal.

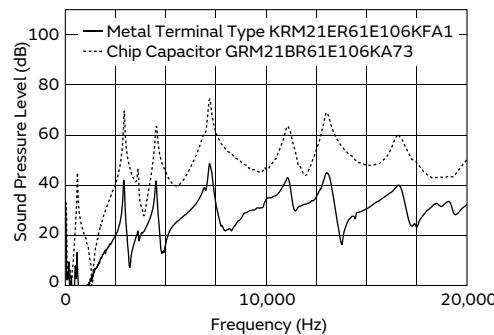


### 2 Substantially reduces noise, board deflection cracks and soldering cracks.

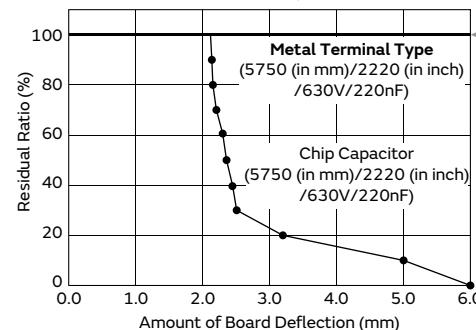
This product is not damaged even with a board deflection of 6 mm.

Solder cracks do not occur even with 2,000 cycles of heat stress.

#### Acoustic Noise is Reduced with Metal Terminals



#### Reduces Stress Caused by Board Deflection



#### Suppresses Solder Cracks Caused by Heat Stress

Chip Size	Chip Only (5750 (in mm)/2220 (in inch) size)		Metal Terminal Type (5750 (in mm)/2220 (in inch) size)	
1000 Cycle				
2000 Cycle				

Test Condition: -55 to +125°C, 5min.,(Liquid Phase)

Board Used: Glass Epoxy Board (FR-4)

Compared with chips only,  
this product is excellent  
in solder cracking resistance.

Demonstrates replacement value of low noise capacitors Experience the effectiveness of the KRM Series.

› Examples of Noise Countermeasures

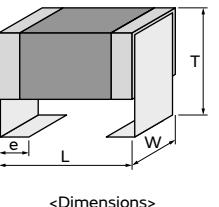
WEB

③ **2 chips can be stacked.**

Realize large capacity by stacking 2 capacitors.

**Specifications**

Size (mm)	2.2×1.25mm to 6.1×5.3mm
Rated Voltage	16Vdc to 1000Vdc
Capacitance	68000pF to 68μF
Main Applications	For smoothing and noise suppression of DC-DC converters



This catalog contains only a portion of the product lineup.

Please refer to the capacitor search tool on the Murata Web site for details.

## KRM Series High Dielectric Constant Type Anti-noise Deflecting crack Soldering crack Part Number List

2.2×1.25mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
1.9mm	25Vdc	X5R	10μF	±10%	KRM21ER61E106KFA1#	
	16Vdc	X5R	10μF	±10%	KRM21ER61C106KFA1#	
2.0mm	25Vdc	X7S	10μF	±10%	KRM21FC71E106KFA1#	<b>D1</b>
	X6S	10μF	±10%	KRM21FC81E106KFA1#	<b>D1</b>	
		X5R	22μF	±20%	KRM21FR61E226MFA1#	

3.5×1.7mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.0mm	25Vdc	X5R	10μF	±10%	KRM31FR61E106KH01#	
2.9mm	100Vdc	X7R	1.0μF	±10%	KRM31KR72A105KH01#	
	50Vdc	X7R	4.7μF	±10%	KRM31KR71H475KH01#	
	35Vdc	X6S	10μF	±10%	KRM31KC8YA106KH01#	
	25Vdc	X6S	10μF	±10%	KRM31KC81E106KH01#	

3.6×1.7mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.9mm	50Vdc	X7R	2.2μF	±10%	KRM31KR71H225KH01#	

3.7×1.85mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
2.9mm	100Vdc	X7R	2.2μF	±10%	KRM31KR72A225KH01#	

6.1×5.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
3.0mm	1000Vdc	X7R	68000pF	±10%	KRM55LR73A683KH01#	
			0.10μF	±10%	KRM55LR73A104KH01#	
	630Vdc	X7R	0.15μF	±10%	KRM55LR72J154KH01#	
			0.22μF	±10%	KRM55LR72J224KH01#	
	250Vdc	X7R	0.68μF	±10%	KRM55LR72E684KH01#	
			1.0μF	±10%	KRM55LR72E105KH01#	
	100Vdc	X7R	4.7μF	±10%	KRM55LR72A475KH01#	
	63Vdc	X7R	4.7μF	±10%	KRM55LR71J475KH01#	
	50Vdc	X7R	4.7μF	±10%	KRM55LR71H475KH01#	
			10μF	±10%	KRM55LR71H106KH01#	
3.9mm	35Vdc	X7R	10μF	±10%	KRM55LR7YA106KH01#	
			15μF	±10%	KRM55LR7YA156KH01#	
	25Vdc	X7R	15μF	±10%	KRM55LR71E156KH01#	
	100Vdc	X7R	6.8μF	±10%	KRM55QR72A685KH01#	
			10μF	±10%	KRM55QR72A106KH01#	
	63Vdc	X7R	10μF	±10%	KRM55QR71J106KH01#	
	50Vdc	X7R	17μF	±10%	KRM55QR71H176KH01#	
	35Vdc	X7R	17μF	±10%	KRM55QR7YA176KH01#	
			22μF	±10%	KRM55QR7YA226KH01#	
	25Vdc	X7R	22μF	±10%	KRM55QR71E226KH01#	

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
3.9mm	25Vdc	X7R	33μF	±10%	KRM55QR71E336KH01#	
5.0mm	1000Vdc	X7R	0.15μF	±20%	KRM55TR73A154MH01#	
			0.22μF	±20%	KRM55TR73A224MH01#	
	630Vdc	X7R	0.33μF	±20%	KRM55TR72J334MH01#	
			0.47μF	±20%	KRM55TR72J474MH01#	
	250Vdc	X7R	1.5μF	±20%	KRM55TR72E155MH01#	
			2.2μF	±20%	KRM55TR72E225MH01#	
	100Vdc	X7R	10μF	±20%	KRM55TR72A106MH01#	
	50Vdc	X7R	22μF	±20%	KRM55TR71H226MH01#	
	35Vdc	X7R	22μF	±20%	KRM55TR7YA226MH01#	
			33μF	±20%	KRM55TR7YA336MH01#	
6.7mm	25Vdc	X7R	33μF	±20%	KRM55TR71E336MH01#	
			15μF	±20%	KRM55WR72A156MH01#	
	100Vdc	X7R	22μF	±20%	KRM55WR72A226MH01#	
			22μF	±20%	KRM55WR71J226MH01#	
	63Vdc	X7R	22μF	±20%	KRM55WR71H336MH01#	
	50Vdc	X7R	33μF	±20%	KRM55WR71H476MH01#	
	35Vdc	X7R	47μF	±20%	KRM55WR7YA476MH01#	
			47μF	±20%	KRM55WR71E476MH01#	
	25Vdc	X7R	68μF	±20%	KRM55WR71E686MH01#	

Part number # indicates the package specification code.

High Effective Capacitance & High Allowable Ripple Current Metal Terminal Type Monolithic Ceramic Capacitor

## KR3 Series

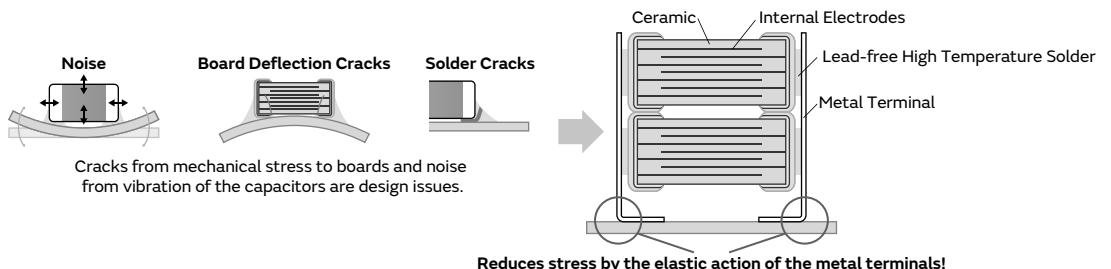


**Bonding the metal terminals to external electrodes solves design issues by mounting large size MLCC!**

### Features

#### 1 Bond Metal Terminals to External Electrodes of Chips

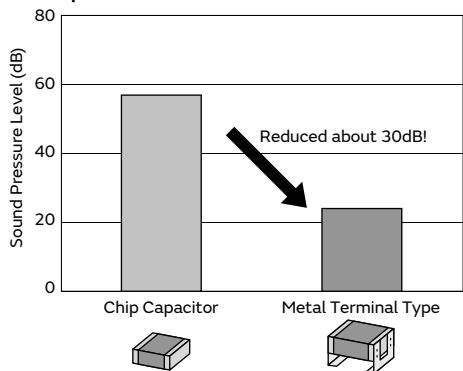
This product has high resistance to heat and mechanical impact and greatly reduces acoustic noise of boards by ceramics.



#### 2 Stacking of Chips

Achieve high capacity by stacking 2 capacitors.

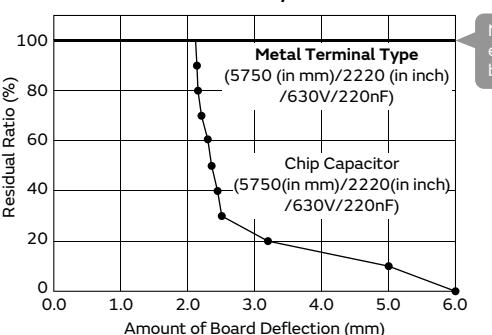
##### Comparison of Noise Reduction Effects



Evaluation Items: 5750 (in mm)/2220 (in inch) size/DC630V/220nF  
 Test Method: DC50V, AC10Vp-p/3KHz  
 Test Board: Glass Epoxy Board (T: 1.6mm)  
 Test Quantity: 3pc  
 Distance Between Microphone and Board: 3mm

Note: Results Using Murata's Evaluation Board

##### Reduces Stress Caused by Board Deflection

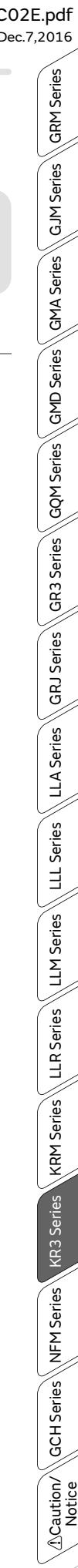


##### Suppresses Solder Cracks Caused by Heat Stress

Chip Size	Chip Only (5750 (in mm)/2220 (in inch) size)	Metal Terminal Type (5750 (in mm)/2220 (in inch) size)
1000 Cycle		
2000 Cycle		

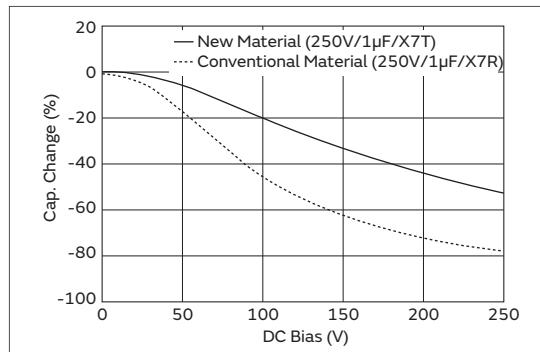
Compared with chips only, this product is excellent in solder cracking resistance.

Test Condition: -55 to +125°C, 5min., (Liquid Phase)  
 Board Used: Glass Epoxy Board (FR-4)



### 3 Adopted Low Dielectric Constant Materials

Improved effective capacity and ripple resistant performance, compared to conventional products (X7R characteristics).

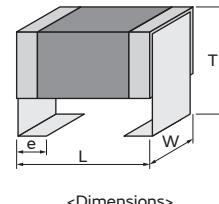


### Specifications

Size (mm)	6.1×5.3mm
Rated Voltage	250Vdc to 630Vdc
Capacitance	0.10μF to 2.2μF
Main Applications	For DC-DC converters of general electronic equipment

This catalog contains only a portion of the product lineup.

Please refer to the capacitor search tool on the Murata Web site for details.



<Dimensions>

## KR3 Series High Dielectric Constant Type Part Number List

6.1×5.3mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
3.0mm	630Vdc	X7T	0.10µF	±10%	KR355LD72J104KH01#	
			0.15µF	±10%	KR355LD72J154KH01#	
	450Vdc	X7T	0.22µF	±10%	KR355LD72W224KH01#	
			0.33µF	±10%	KR355LD72W334KH01#	
			0.47µF	±10%	KR355LD72W474KH01#	
			0.47µF	±10%	KR355LD72E474KH01#	
			0.68µF	±10%	KR355LD72E684KH01#	
	3.9mm	X7T	0.22µF	±10%	KR355QD72J224KH01#	
			0.27µF	±10%	KR355QD72J274KH01#	
5.0mm	450Vdc	X7T	0.56µF	±10%	KR355QD72W564KH01#	
			1.0µF	±10%	KR355QD72E105KH01#	
	250Vdc	X7T	1.5µF	±20%	KR355TD72E155MH01#	
			0.68µF	±20%	KR355TD72W684MH01#	
			1.0µF	±20%	KR355TD72W105MH01#	
6.7mm	630Vdc	X7T	0.47µF	±20%	KR355WD72J474MH01#	
			0.56µF	±20%	KR355WD72J564MH01#	
	450Vdc	X7T	1.2µF	±20%	KR355WD72W125MH01#	
			2.2µF	±20%	KR355WD72E225MH01#	

Part number # indicates the package specification code.

### 3 Terminal Low ESL Monolithic Ceramic Capacitors

## NFM Series



Low  
ESL

EMI  
FIL®

WEB

This is the most suitable Low ESL capacitors for noise measurement and power decoupling of highspeed electrical devices.

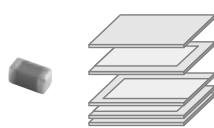
### Features

#### 1 Low ESL

Since the equivalent series inductance (ESL) is low and excellent in high frequency characteristics, this capacitor is suitable for power supply decoupling of high-speed operation electronic equipment.

- 2-terminal Capacitor

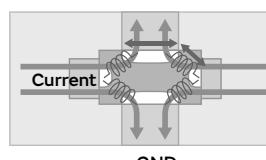
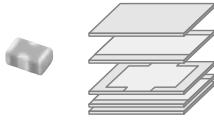
Realizes Ultra low ESL by using a extremely shorter high frequency current path



HOT  
GND

× long current distance  
× Narrow wiring width

- 3-terminal capacitor

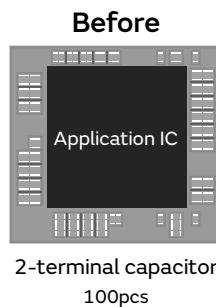


HOT  
GND

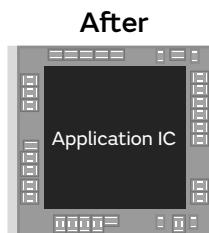
- Short current distance
- Wide wiring width
- Four routes formed in parallel

#### 2 Contributes to a reduction in the number of components.

The number of components can be reduced by using low ESL capacitors, while maintaining functions equivalent to general purpose capacitors (GRM Series).



Reduction of  
68 components



2-terminal capacitor  
100pcs

3-terminal capacitor  
32pcs

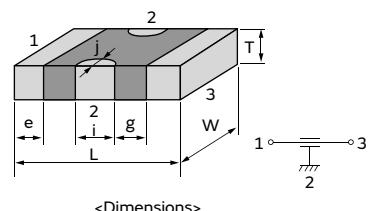
#### 3 Contributes to noise suppression

Example of noise suppression effect

WEB

### Specifications

Size (mm)	1.0×0.5mm to 4.5×1.6mm
Rated Voltage	2.5Vdc to 100Vdc
Capacitance	100pF to 27μF
Main Applications	For decoupling and smoothing circuits, For noise suppression



## NFM Series Part Number List

### 1.0×0.5mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.35mm	6.3Vdc	0.47μF	±20%	NFM15PC474R0J3#	
	4Vdc	0.47μF	±20%	NFM15PC474D0G3#	
		1.0μF	±20%	NFM15PC105R0G3#	
0.5mm	16Vdc	2200pF	±20%	NFM15CC222D1C3#	
		22000pF	±20%	NFM15CC223C1C3#	
		47000pF	±20%	NFM15PC473C1C3#	
	10Vdc	2200pF	±20%	NFM15CC222D1A3#	
		22000pF	±20%	NFM15CC223C1A3#	
		47000pF	±20%	NFM15PC473C1A3#	
		0.10μF	±20%	NFM15PC104R1A3#	
		0.22μF	±20%	NFM15PC224R1A3#	
	6.3Vdc	0.10μF	±20%	NFM15PC104D0J3#	
		0.22μF	±20%	NFM15PC224D0J3#	
		2.5Vdc	4.3μF	±20%	NFM15PC435R0E3#
0.65mm	2.5Vdc	7.5μF	±20%	NFM15PC755R0E3#	
0.7mm	2.5Vdc	9.1μF	±20%	NFM15PC915R0E3#	

### 1.6×0.8mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.7mm	16Vdc	100pF	±20%	NFM18CC101R1C3#	
		220pF	±20%	NFM18CC221R1C3#	
		470pF	±20%	NFM18CC471R1C3#	
		1000pF	±20%	NFM18CC102R1C3#	
		2200pF	±20%	NFM18CC222R1C3#	
		22000pF	±20%	NFM18CC223R1C3#	
		0.10μF	±20%	NFM18PC104R1C3#	
	6.3Vdc	0.22μF	±20%	NFM18PC224R0J3#	
		0.47μF	±20%	NFM18PC474R0J3#	
		±20%	±20%	NFM18PS474R0J3#	
		1.0μF	±20%	NFM18PS105D0J3#	
		±20%	±20%	NFM18PS105R0J3#	
0.9mm	10Vdc	2.2μF	±20%	NFM18PC225B1A3#	
	6.3Vdc	1.0μF	±20%	NFM18PC105R0J3#	

### 2.0×1.25mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.95mm	50Vdc	220pF	±20%	NFM21CC221R1H3#	
		470pF	±20%	NFM21CC471R1H3#	
		1000pF	±20%	NFM21CC102R1H3#	
		2200pF	±20%	NFM21CC222R1H3#	
		22000pF	±20%	NFM21CC223R1H3#	
	25Vdc	0.10μF	±20%	NFM21PC104R1E3#	
		0.22μF	±20%	NFM21PC224R1C3#	
		0.47μF	±20%	NFM21PC474R1C3#	
	16Vdc	1.0μF	±20%	NFM21PC105B1C3#	
		1.0μF	±20%	NFM21PC105B1A3#	
10Vdc	10Vdc	4.7μF	±20%	NFM21PC475B1A3#	

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.95mm	6.3Vdc	2.2μF	±20%	NFM21PC225B0J3#	
		10μF	±20%	NFM21PS106B0J3#	

### 3.2×1.25mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
0.9mm	50Vdc	220pF	+50/-20%	NFM3DCC221R1H3#	
		470pF	+50/-20%	NFM3DCC471R1H3#	
		1000pF	+50/-20%	NFM3DCC102R1H3#	
		2200pF	+50/-20%	NFM3DCC222R1H3#	
		22000pF	+50/-20%	NFM3DCC223R1H3#	
		±20%	±20%	NFM3DPC223R1H3#	D3

### 3.2×1.6mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
1.5mm	100Vdc	10000pF	±20%	NFM31KC103R2A3#	D3
		15000pF	±20%	NFM31KC153R2A3#	
		22000pF	±20%	NFM31KC223R2A3#	
		0.10μF	±20%	NFM31KC104R2A3#	
	50Vdc	10000pF	±20%	NFM31KC103R1H3#	D3
		15000pF	±20%	NFM31KC153R1H3#	D3
		22000pF	±20%	NFM31KC223R1H3#	D3
		0.10μF	±20%	NFM31KC104R1H3#	
6.3Vdc	6.3Vdc	27μF	±20%	NFM31PC276B0J3#	

### 4.5×1.6mm

T max.	Rated Voltage	Cap.	Tol.	Part Number	
1.2mm	100Vdc	470pF	+50/-20%	NFM41CC471R2A3#	
		1000pF	+50/-20%	NFM41CC102R2A3#	
		2200pF	+50/-20%	NFM41CC222R2A3#	
		22000pF	+50/-20%	NFM41CC223R2A3#	
	50Vdc	0.20μF	+80/-20%	NFM41PC204F1H3#	
		1.5μF	±20%	NFM41PC155B1H3#	
	25Vdc	1.5μF	±20%	NFM41PC155B1E3#	

Part number # indicates the package specification code.

## Monolithic Ceramic Capacitors for implanted Medical Devices

### GCH Series



**These medical-grade monolithic ceramic capacitors are suitable for use in non-critical circuits of implanted medical devices such as cardiac pacemakers.**

#### Features

##### 1 Ideal for use in implanted medical devices (non-critical circuits\*)

These capacitors are suitable for use in non-critical circuits of implanted medical devices such as cardiac pacemakers, implanted diagnostic devices, implanted rehabilitation devices and implanted nerve stimulation devices.

They were developed based on high-reliability capacitor design technology, quality control, and process management know-how amassed by Murata in the development of markets requiring high reliability, such as the automotive market.

As verified by reliability testing including heat cycle and humidity-resistance load tests, they are guaranteed to withstand more severe conditions than our general-purpose (GRM series) capacitors.

\* Non-critical circuits

This term refers to circuits in implanted medical devices that are not directly linked to life support, i.e., circuits that will not directly endanger the life of the patient should the functionality of the device be reduced or halted by failure of the circuit.

In the case of cardiac pacemakers, circuits that are not directly linked to life support would be considered non-critical circuits.

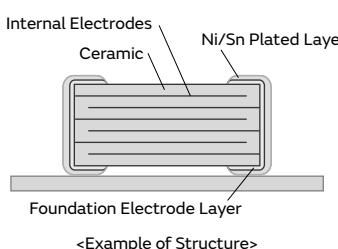
Murata also produces a series of capacitors (the GCR series) suitable for critical circuits linked to life support. Please contact your Murata sales representative for details.

You can also contact us via our website.

##### 2 Individual management and inspection available upon request.

Individual management, such as appearance inspections or verification of various characteristics, can be performed upon request.

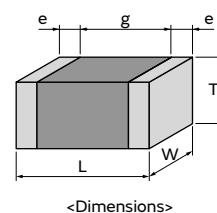
##### 3 Sn plating is applied to the external electrodes; excellent solderability.



#### Specifications

Size (mm)	1.0×0.5mm to 3.2×2.5mm
Rated Voltage	6.3Vdc to 100Vdc
Capacitance	1.0pF to 47μF
Main Applications	Non-critical circuits of Implanted medical devices such as cardiac pacemakers, Implanted diagnostic devices, Implanted rehabilitation devices and Implanted nerve stimulation devices

This catalog contains only a portion of the product lineup.  
Please refer to the capacitor search tool on the Murata Web site for details.



## GCH Series Temperature Compensating Type Medical Device Part Number List

### 1.0×0.5mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	50Vdc	COG	1.0pF	±0.25pF	<b>GCH1555C1H1R0CE01#</b>
			2.0pF	±0.25pF	<b>GCH1555C1H2R0CE01#</b>
			3.0pF	±0.25pF	<b>GCH1555C1H3R0CE01#</b>
			4.0pF	±0.25pF	<b>GCH1555C1H4R0CE01#</b>
			5.0pF	±0.25pF	<b>GCH1555C1H5R0CE01#</b>
			6.0pF	±0.5pF	<b>GCH1555C1H6R0DE01#</b>
			7.0pF	±0.5pF	<b>GCH1555C1H7R0DE01#</b>
			8.0pF	±0.5pF	<b>GCH1555C1H8R0DE01#</b>
			9.0pF	±0.5pF	<b>GCH1555C1H9R0DE01#</b>
			10pF	±5%	<b>GCH1555C1H100JE01#</b>
			15pF	±5%	<b>GCH1555C1H150JE01#</b>
			22pF	±5%	<b>GCH1555C1H220JE01#</b>
			33pF	±5%	<b>GCH1555C1H330JE01#</b>
			47pF	±5%	<b>GCH1555C1H470JE01#</b>
			68pF	±5%	<b>GCH1555C1H680JE01#</b>
			100pF	±5%	<b>GCH1555C1H101JE01#</b>
			150pF	±5%	<b>GCH1555C1H151JE01#</b>
			220pF	±5%	<b>GCH1555C1H221JE01#</b>
			330pF	±5%	<b>GCH1555C1H331JE01#</b>
			470pF	±5%	<b>GCH1555C1H471JE01#</b>
			680pF	±5%	<b>GCH1555C1H681JE01#</b>
			1000pF	±5%	<b>GCH1555C1H102JE01#</b>
			1500pF	±5%	<b>GCH1555C1H152JE01#</b>
			2200pF	±5%	<b>GCH1555C1H222JE01#</b>
			3300pF	±5%	<b>GCH1555C1H332JE01#</b>

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	50Vdc	COG	4.0pF	±0.25pF	<b>GCH1885C1H4R0CE01#</b>
			5.0pF	±0.25pF	<b>GCH1885C1H5R0CE01#</b>
			6.0pF	±0.5pF	<b>GCH1885C1H6R0DE01#</b>
			7.0pF	±0.5pF	<b>GCH1885C1H7R0DE01#</b>
			8.0pF	±0.5pF	<b>GCH1885C1H8R0DE01#</b>
			9.0pF	±0.5pF	<b>GCH1885C1H9R0DE01#</b>
			10pF	±5%	<b>GCH1885C1H100JE01#</b>
			15pF	±5%	<b>GCH1885C1H150JE01#</b>
			22pF	±5%	<b>GCH1885C1H220JE01#</b>
			33pF	±5%	<b>GCH1885C1H330JE01#</b>
			47pF	±5%	<b>GCH1885C1H470JE01#</b>
			68pF	±5%	<b>GCH1885C1H680JE01#</b>
			100pF	±5%	<b>GCH1885C1H101JE01#</b>
			150pF	±5%	<b>GCH1885C1H151JE01#</b>
			220pF	±5%	<b>GCH1885C1H221JE01#</b>
			330pF	±5%	<b>GCH1885C1H331JE01#</b>
			470pF	±5%	<b>GCH1885C1H471JE01#</b>
			680pF	±5%	<b>GCH1885C1H681JE01#</b>
			1000pF	±5%	<b>GCH1885C1H102JE01#</b>
			1500pF	±5%	<b>GCH1885C1H152JE01#</b>
			2200pF	±5%	<b>GCH1885C1H222JE01#</b>
			3300pF	±5%	<b>GCH1885C1H332JE01#</b>

### 1.6×0.8mm

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	COG	1.0pF	±0.25pF	<b>GCH1885C2A1R0CE01#</b>
			2.0pF	±0.25pF	<b>GCH1885C2A2R0CE01#</b>
			3.0pF	±0.25pF	<b>GCH1885C2A3R0CE01#</b>
			4.0pF	±0.25pF	<b>GCH1885C2A4R0CE01#</b>
			5.0pF	±0.25pF	<b>GCH1885C2A5R0CE01#</b>
			6.0pF	±0.5pF	<b>GCH1885C2A6R0DE01#</b>
			7.0pF	±0.5pF	<b>GCH1885C2A7R0DE01#</b>
			8.0pF	±0.5pF	<b>GCH1885C2A8R0DE01#</b>
			9.0pF	±0.5pF	<b>GCH1885C2A9R0DE01#</b>
			10pF	±5%	<b>GCH1885C2A100JE01#</b>
			15pF	±5%	<b>GCH1885C2A150JE01#</b>
			22pF	±5%	<b>GCH1885C2A220JE01#</b>
			33pF	±5%	<b>GCH1885C2A330JE01#</b>
			47pF	±5%	<b>GCH1885C2A470JE01#</b>
			68pF	±5%	<b>GCH1885C2A680JE01#</b>
			100pF	±5%	<b>GCH1885C2A101JE01#</b>
			150pF	±5%	<b>GCH1885C2A151JE01#</b>
			220pF	±5%	<b>GCH1885C2A221JE01#</b>
			330pF	±5%	<b>GCH1885C2A331JE01#</b>
			470pF	±5%	<b>GCH1885C2A471JE01#</b>
			680pF	±5%	<b>GCH1885C2A681JE01#</b>
			1000pF	±5%	<b>GCH1885C2A102JE01#</b>
			1500pF	±5%	<b>GCH1885C2A152JE01#</b>
			2200pF	±5%	<b>GCH1885C2A222JE01#</b>
			3300pF	±5%	<b>GCH1885C2A332JE01#</b>
			4700pF	±5%	<b>GCH1885C2A472JE01#</b>
			6800pF	±5%	<b>GCH2165C2A101JE01#</b>
			10000pF	±5%	<b>GCH2165C2A151JE01#</b>
			15000pF	±5%	<b>GCH2165C2A221JE01#</b>
			22000pF	±5%	<b>GCH2165C2A331JE01#</b>
			33000pF	±5%	<b>GCH2165C2A471JE01#</b>
			47000pF	±5%	<b>GCH2165C2A681JE01#</b>
			68000pF	±5%	<b>GCH2165C2A102JE01#</b>
			100000pF	±5%	<b>GCH2165C2A152JE01#</b>
			150000pF	±5%	<b>GCH2165C2A222JE01#</b>
			220000pF	±5%	<b>GCH2165C2A332JE01#</b>
			330000pF	±5%	<b>GCH2165C2A472JE01#</b>
			470000pF	±5%	<b>GCH2165C2A682JE01#</b>
			680000pF	±5%	<b>GCH2165C2A103JE01#</b>
			1000000pF	±5%	<b>GCH2165C2A153JE01#</b>
			1500000pF	±5%	<b>GCH2165C2A223JE01#</b>
			2200000pF	±5%	<b>GCH2165C2A333JE01#</b>
			3300000pF	±5%	<b>GCH2165C2A473JE01#</b>
			4700000pF	±5%	<b>GCH2165C2A683JE01#</b>
			6800000pF	±5%	<b>GCH2165C2A104JE01#</b>
			10000000pF	±5%	<b>GCH2165C2A154JE01#</b>
			15000000pF	±5%	<b>GCH2165C2A224JE01#</b>
			22000000pF	±5%	<b>GCH2165C2A334JE01#</b>
			33000000pF	±5%	<b>GCH2165C2A474JE01#</b>
			47000000pF	±5%	<b>GCH2165C2A684JE01#</b>
			68000000pF	±5%	<b>GCH2165C2A105JE01#</b>
			100000000pF	±5%	<b>GCH2165C2A155JE01#</b>
			150000000pF	±5%	<b>GCH2165C2A225JE01#</b>
			220000000pF	±5%	<b>GCH2165C2A335JE01#</b>
			330000000pF	±5%	<b>GCH2165C2A475JE01#</b>
			470000000pF	±5%	<b>GCH2165C2A685JE01#</b>
			680000000pF	±5%	<b>GCH2165C2A106JE01#</b>
			1000000000pF	±5%	<b>GCH2165C2A156JE01#</b>
			1500000000pF	±5%	<b>GCH2165C2A226JE01#</b>
			2200000000pF	±5%	<b>GCH2165C2A336JE01#</b>
			3300000000pF	±5%	<b>GCH2165C2A476JE01#</b>
			4700000000pF	±5%	<b>GCH2165C2A686JE01#</b>
			6800000000pF	±5%	<b>GCH2165C2A107JE01#</b>
			10000000000pF	±5%	<b>GCH2165C2A157JE01#</b>
			15000000000pF	±5%	<b>GCH2165C2A227JE01#</b>
			22000000000pF	±5%	<b>GCH2165C2A337JE01#</b>
			33000000000pF	±5%	<b>GCH2165C2A477JE01#</b>
			47000000000pF	±5%	<b>GCH2165C2A687JE01#</b>
			68000000000pF	±5%	<b>GCH2165C2A108JE01#</b>
			100000000000pF	±5%	<b>GCH2165C2A158JE01#</b>
			150000000000pF	±5%	<b>GCH2165C2A228JE01#</b>
			220000000000pF	±5%	<b>GCH2165C2A338JE01#</b>
			330000000000pF	±5%	<b>GCH2165C2A478JE01#</b>
			470000000000pF	±5%	<b>GCH2165C2A688JE01#</b>
			680000000000pF	±5%	<b>GCH2165C2A109JE01#</b>
			1000000000000pF	±5%	<b>GCH2165C2A159JE01#</b>
			1500000000000pF	±5%	<b>GCH2165C2A229JE01#</b>
			2200000000000pF	±5%	<b>GCH2165C2A339JE01#</b>
			3300000000000pF	±5%	<b>GCH2165C2A479JE01#</b>
			4700000000000pF	±5%	<b>GCH2165C2A689JE01#</b>
			6800000000000pF	±5%	<b>GCH2165C2A10A JE01#</b>
			10000000000000pF	±5%	<b>GCH2165C2A15A JE01#</b>
			15000000000000pF	±5%	<b>GCH2165C2A22A JE01#</b>
			22000000000000pF	±5%	<b>GCH2165C2A33A JE01#</b>
			33000000000000pF	±5%	<b>GCH2165C2A47A JE01#</b>
			47000000000000pF	±5%	<b>GCH2165C2A68A JE01#</b>
			68000000000000pF	±5%	<b>GCH2165C2A10B JE01#</b>
			100000000000000pF	±5%	<b>GCH2165C2A15B JE01#</b>

## GCH Series Temperature Compensating Type Part Number List

(→ 3.2×1.6mm)

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number	
0.95mm	100Vdc	COG	6800pF	±5%	<b>GCH3195C2A682JE01#</b>	
			10000pF	±5%	<b>GCH3195C2A103JE01#</b>	
	50Vdc	COG	4700pF	±5%	<b>GCH3195C1H472JE01#</b>	
			6800pF	±5%	<b>GCH3195C1H682JE01#</b>	
			10000pF	±5%	<b>GCH3195C1H103JE01#</b>	
			15000pF	±5%	<b>GCH3195C1H153JE01#</b>	
			22000pF	±5%	<b>GCH3195C1H223JE01#</b>	
			33000pF	±5%	<b>GCH3195C1H333JE01#</b>	
1.25mm	50Vdc	COG	47000pF	±5%	<b>GCH31M5C1H473JE01#</b>	

## GCH Series High Dielectric Constant Type Medical Device Part Number List

**1.0×0.5mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.55mm	100Vdc	X7R	220pF	±10%	GCH155R72A221KE01#
			470pF	±10%	GCH155R72A471KE01#
			1000pF	±10%	GCH155R72A102KE01#
			2200pF	±10%	GCH155R72A222KE01#
			4700pF	±10%	GCH155R72A472KE01#
	50Vdc	X7R	220pF	±10%	GCH155R71H221KE01#
			470pF	±10%	GCH155R71H471KE01#
			1000pF	±10%	GCH155R71H102KE01#
			2200pF	±10%	GCH155R71H222KE01#
			4700pF	±10%	GCH155R71H472KE01#
	25Vdc	X7R	10000pF	±10%	GCH155R71H103KE01#
			22000pF	±10%	GCH155R71H223KE01#
			47000pF	±10%	GCH155R71H473KE01#
			0.10µF	±10%	GCH155R71H104KE01#
			2.2µF	±10%	GCH155R71E223KE01#
	16Vdc	X7R	47000pF	±10%	GCH155R71C473KE01#
			0.10µF	±10%	GCH155R71C104KE01#
			0.22µF	±10%	GCH155R71C224KE01#
	10Vdc	X7R	0.10µF	±10%	GCH155R71A104KE01#
0.7mm	10Vdc	X7S	1.0µF	±10%	GCH155C71A105KE11#

**1.6×0.8mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.9mm	100Vdc	X7R	1000pF	±10%	GCH188R72A102KE01#
			2200pF	±10%	GCH188R72A222KE01#
			4700pF	±10%	GCH188R72A472KE01#
			10000pF	±10%	GCH188R72A103KE01#
			22000pF	±10%	GCH188R72A223KE01#
	50Vdc	X7R	0.10µF	±10%	GCH188R72A104KE01#
			1000pF	±10%	GCH188R71H102KE01#
			2200pF	±10%	GCH188R71H222KE01#
			4700pF	±10%	GCH188R71H472KE01#
			10000pF	±10%	GCH188R71H103KE01#
	25Vdc	X7R	22000pF	±10%	GCH188R71H223KE01#
			47000pF	±10%	GCH188R71H473KE01#
			0.10µF	±10%	GCH188R71H104KE01#
			0.22µF	±10%	GCH188R71H224KE01#
			0.47µF	±10%	GCH188R71H474KE01#
	16Vdc	X7R	1.0µF	±10%	GCH188R71E104KE01#
			0.10pF	±10%	GCH188R71E224KE01#
			0.22pF	±10%	GCH188R71E474KE01#
			0.47pF	±10%	GCH188R71E105KE01#
			1.0pF	±10%	GCH188R71E225KE01#
			2.2pF	±10%	GCH188R71E475KE01#
			4.7pF	±10%	GCH188R71E106KE01#
			10pF	±10%	GCH188R71E226KE01#
			22pF	±10%	GCH188R71E476KE01#
			47pF	±10%	GCH188R71E107KE01#
	10Vdc	X7S	2.2µF	±10%	GCH188C71A225KE01#
6.3Vdc	X7R	2.2µF	±10%	GCH188R70J225KE01#	

**2.0×1.25mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	25Vdc	X7R	0.47pF	±10%	GCH219R71E474KE01#
			1.0pF	±10%	GCH219R71C105KE01#
	100Vdc	X7R	10000pF	±10%	GCH21BR72A103KE01#
			22000pF	±10%	GCH21BR72A223KE01#
			47000pF	±10%	GCH21BR72A473KE01#
			0.10µF	±10%	GCH21BR72A104KE01#
			0.22µF	±10%	GCH21BR71H224KE01#
			0.47µF	±10%	GCH21BR71H474KE01#
			1.0µF	±10%	GCH21BR71H105KE01#
			2.2µF	±10%	GCH21BR71E224KE01#
	50Vdc	X7R	47000pF	±10%	GCH21BR71H473KE01#
			0.10µF	±10%	GCH21BR71H104KE01#
			0.22µF	±10%	GCH21BR71H224KE01#
			0.47µF	±10%	GCH21BR71H474KE01#
			1.0µF	±10%	GCH21BR71H105KE01#
			2.2µF	±10%	GCH21BR71E225KE01#
			4.7µF	±10%	GCH21BR71C475KE01#
			10µF	±10%	GCH21BR71A225KE01#
			22µF	±10%	GCH21BC71A475KE01#
			47µF	±10%	GCH21BC70J106KE01#
	25Vdc	X7S	1.0µF	±10%	GCH21BC72A105KE11#
			4.7µF	±10%	GCH21BC7Y475KE11#
			47µF	±10%	GCH21BC71E475KE11#
1.4mm	100Vdc	X7R	1.0pF	±10%	GCH21BR72A103KE01#
			0.22pF	±10%	GCH21BR72A223KE01#
			0.47pF	±10%	GCH21BR72A473KE01#
			1.0pF	±10%	GCH21BR72A104KE01#
			2.2pF	±10%	GCH21BR72E224KE01#
			4.7pF	±10%	GCH21BR71C475KE01#
			10pF	±10%	GCH21BR71A225KE01#
			22pF	±10%	GCH21BC71A475KE01#
			47pF	±10%	GCH21BC71E475KE01#
			100pF	±10%	GCH21BC71E105KE01#
1.45mm	35Vdc	X7R	1.0pF	±10%	GCH21BR71E224KE01#
			0.22pF	±10%	GCH21BR71E105KE01#
			0.47pF	±10%	GCH21BR71E474KE01#
			1.0pF	±10%	GCH21BR71E106KE01#
			2.2pF	±10%	GCH21BR71E225KE01#
			4.7pF	±10%	GCH21BR71C475KE01#
			10pF	±10%	GCH21BR71A226KE01#
			22pF	±10%	GCH21BC71A476KE01#
			47pF	±10%	GCH21BC71E476KE01#
			100pF	±10%	GCH21BC71E107KE01#

**3.2×1.6mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
0.95mm	100Vdc	X7R	0.10µF	±10%	GCH319R72A104KE01#
			0.22µF	±10%	GCH31MR72A224KE01#
	50Vdc	X7R	0.47pF	±10%	GCH31MR71H474KE01#
			1.0µF	±10%	GCH31MR71H105KE01#
			2.2µF	±10%	GCH31MR71E225KE01#
			4.7µF	±10%	GCH31CR72A105KE01#
			10µF	±10%	GCH31CR71H225KE01#
			22µF	±10%	GCH31CR71E475KE01#
			47µF	±10%	GCH31CR71C475KE01#
	25Vdc	X7R	4.7µF	±10%	GCH31CR71E475KE01#
			10µF	±10%	GCH31CR71C106KE01#
			22µF	±10%	GCH31CR71A226KE01#
			47µF	±10%	GCH31CR71E476KE01#
			100µF	±10%	GCH31CR71A107KE01#
			220µF	±10%	GCH31CR71E477KE01#
			470µF	±10%	GCH31CR71C108KE01#
			1000µF	±10%	GCH31CR71A227KE01#
			2200µF	±10%	GCH31CR71E478KE01#
			4700µF	±10%	GCH31CR71C109KE01#
1.8mm	100Vdc	X7R	1.0µF	±10%	GCH31CR71E475KE01#
			2.2µF	±10%	GCH31CR71C475KE01#
			4.7µF	±10%	GCH31CR71A226KE01#
			10µF	±10%	GCH31CR71E476KE01#
			22µF	±10%	GCH31CR71C107KE01#
			47µF	±10%	GCH31CR71A227KE01#
			100µF	±10%	GCH31CR71E477KE01#
			220µF	±10%	GCH31CR71C108KE01#
			470µF	±10%	GCH31CR71A229KE01#
			1000µF	±10%	GCH31CR71E478KE01#
2.7mm	50Vdc	X7R	1.0µF	±10%	GCH32ER71H475KE01#
			2.2µF	±10%	GCH32ER71C475KE01#
			4.7µF	±10%	GCH32ER71A226KE01#
			10µF	±10%	GCH32ER71E476KE01#
			22µF	±10%	GCH32ER71C107KE01#
			47µF	±10%	GCH32ER71A227KE01#
			100µF	±10%	GCH32ER71E477KE01#
			220µF	±10%	GCH32ER71C108KE01#
			470µF	±10%	GCH32ER71A229KE01#
			1000µF	±10%	GCH32ER71E478KE01#

**3.2×2.5mm**

T max.	Rated Voltage	TC Code	Cap.	Tol.	Part Number
2.2mm	100Vdc	X7R	2.2pF	±10%	GCH32DR72A225KE01#
			4.7pF	±10%	GCH32DR71E475KE01#
	50Vdc	X7R	1.0pF	±10%	GCH32DR71C106KE01#
			2.2pF	±10%	GCH32DR71A226KE01#
			4.7pF	±10%	GCH32DR71E476KE01#
			10pF	±10%	

GRM, GJM, GMA, GMD, GQM,  
GR3, GRJ, LLA, LLL, LLM, LLR,  
KRM, KR3

⚠Caution/Notice



⚠Caution

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## ⚠ Caution

### Storage and Operation Conditions

1. The performance of chip monolithic ceramic capacitors may be affected by the storage conditions.

#### 1-1. Store the capacitors in the following conditions:

Room Temperature of +5°C to +40°C and a Relative Humidity of 20% to 70%.

(1) Sunlight, dust, rapid temperature changes, corrosive gas atmosphere, or high temperature and humidity conditions during storage may affect solderability and packaging performance.

Therefore, please maintain the storage temperature and humidity. Use the product within six months, as prolonged storage may cause oxidation of the terminations (outer electrodes).

(2) Please confirm solderability before using after six months. Store the capacitors without opening the original bag. Even if the storage period is short, do not exceed the specified atmospheric conditions.

1-2. Corrosive gas can react with the termination (external) electrodes or lead wires of capacitors, and result in poor solderability. Do not store the capacitors in an atmosphere consisting of corrosive gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.).

1-3. Due to moisture condensation caused by rapid humidity changes, or the photochemical change caused by direct sunlight on the terminal electrodes and/or the resin/epoxy coatings, the solderability and electrical performance may deteriorate. Do not store capacitors under direct sunlight or in high humidity conditions.

### Rating

#### 1. Temperature Dependent Characteristics

1. The electrical characteristics of a capacitor can change with temperature.

1-1. For capacitors having larger temperature dependency, the capacitance may change with temperature changes.

The following actions are recommended in order to ensure suitable capacitance values.

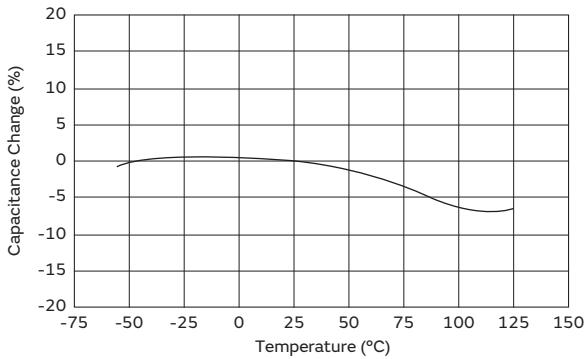
(1) Select a suitable capacitance for the operating temperature range.

(2) The capacitance may change within the rated temperature.

When you use a high dielectric constant type capacitor in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the temperature characteristics, and carefully confirm the various characteristics in actual use conditions and the actual system.

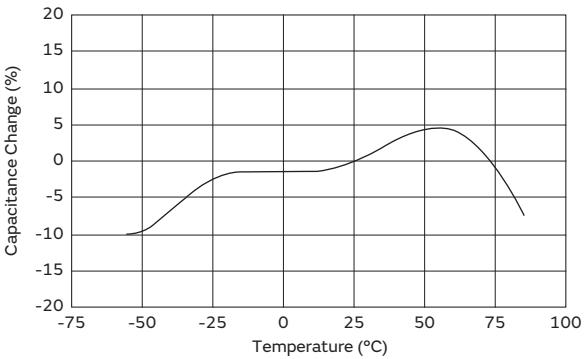
#### [Example of Temperature Characteristics X7R (R7)]

Sample: 0.1μF, Rated Voltage 50VDC



#### [Example of Temperature Characteristics X5R (R6)]

Sample: 22μF, Rated Voltage 4VDC



#### 2. Measurement of Capacitance

1. Measure capacitance with the voltage and frequency specified in the product specifications.

1-1. The output voltage of the measuring equipment may decrease occasionally when capacitance is high. Please confirm whether a prescribed measured voltage is impressed to the capacitor.

1-2. The capacitance values of high dielectric constant type capacitors change depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

Continued on the following page. ↗

## Caution

Continued from the preceding page. ↳

### 3. Applied Voltage

- Do not apply a voltage to the capacitor that exceeds the rated voltage as called out in the specifications.

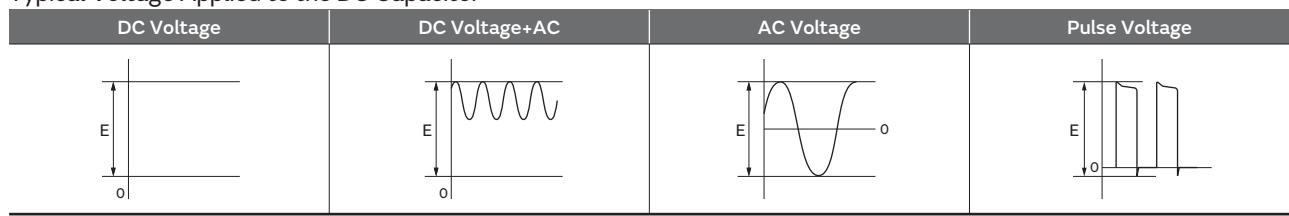
1-1. Applied voltage between the terminals of a capacitor shall be less than or equal to the rated voltage.

(1) When AC voltage is superimposed on DC voltage, the zero-to-peak voltage shall not exceed the rated DC voltage.

When AC voltage or pulse voltage is applied, the peak-to-peak voltage shall not exceed the rated DC voltage.

(2) Abnormal voltages (surge voltage, static electricity, pulse voltage, etc.) shall not exceed the rated DC voltage.

Typical Voltage Applied to the DC Capacitor



(E: Maximum possible applied voltage.)

#### 1-2. Influence of over voltage

Over voltage that is applied to the capacitor may result in an electrical short circuit caused by the breakdown of the internal dielectric layers.

The time duration until breakdown depends on the applied voltage and the ambient temperature.

- Use a safety standard certified capacitor in a power supply input circuit (AC filter), as it is also necessary to consider the withstand voltage and impulse withstand voltage defined for each device.

### 4. Type of Applied Voltage and Self-heating Temperature

- Confirm the operating conditions to make sure that no large current is flowing into the capacitor due to the continuous application of an AC voltage or pulse voltage.

When a DC rated voltage product is used in an AC voltage circuit or a pulse voltage circuit, the AC current or pulse current will flow into the capacitor; therefore check the self-heating condition.

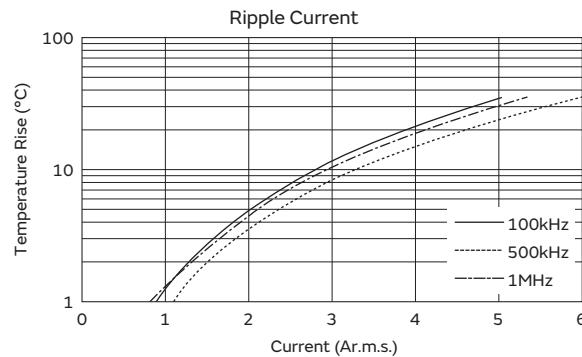
Please confirm the surface temperature of the capacitor so that the temperature remains within the upper limits of the operating temperature, including the rise in temperature due to self-heating. When the capacitor is used with a high-frequency voltage or pulse voltage, heat may be generated by dielectric loss.

<Applicable to Rated Voltage of less than 100VDC>

- The load should be contained to the level such that when measuring at atmospheric temperature of 25°C, the product's self-heating remains below 20°C and the surface temperature of the capacitor in the actual circuit remains within the maximum operating temperature.

[Example of Temperature Rise (Heat Generation) in Chip Monolithic Ceramic Capacitors in Contrast to Ripple Current]

Sample: R (R1) characteristics 10μF,  
 Rated voltage: DC10V



Continued on the following page. ↗

## Caution

Continued from the preceding page. ↳

<Applicable to Temperature Characteristics X7R (R7),  
 X7T (D7) beyond Rated Voltage of 200VDC>

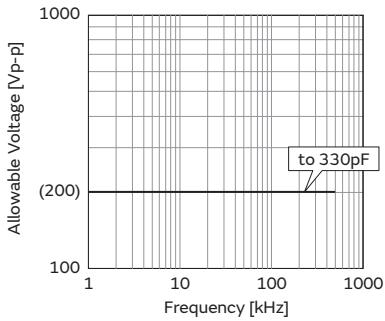
1-2. The load should be contained so that the self-heating of the capacitor body remains below 20°C, when measuring at an ambient temperature of 25°C. In addition, use a K thermocouple of Ø0.1mm with less heat capacity when measuring, and measure in a condition where there is no effect from the radiant heat of other components or air flow caused by convection. Excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor. (Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

<Applicable to Temperature Characteristics U2J (7U),  
 C0G (5C) beyond Rated Voltage of 200VDC>

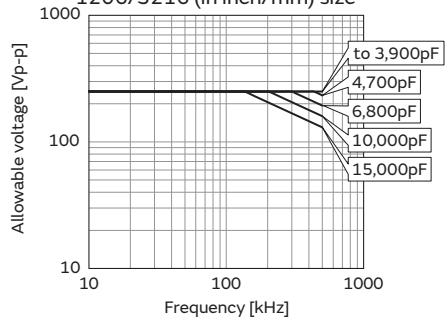
1-3. Since the self-heating is low in the low loss series, the allowable power becomes extremely high compared to the common X7R (R7) characteristics. However, when a load with self-heating of 20°C is applied at the rated voltage, the allowable power may be exceeded. When the capacitor is used in a high-frequency voltage circuit of 1kHz or more, the frequency of the applied voltage should be less than 500kHz sine wave (less than 100kHz for a product with rated voltage of DC3.15kV), to limit the voltage load so that the load remains within the derating shown in the following figure. In the case of non-sine wave, high-frequency components exceeding the fundamental frequency may be included. In such a case, please contact Murata. The excessive generation of heat may cause deterioration of the characteristics and reliability of the capacitor. (Absolutely do not perform measurements while the cooling fan is operating, as an accurate measurement may not be performed.)

The surface temperature of the capacitor: 125°C or less  
 (including self-heating)

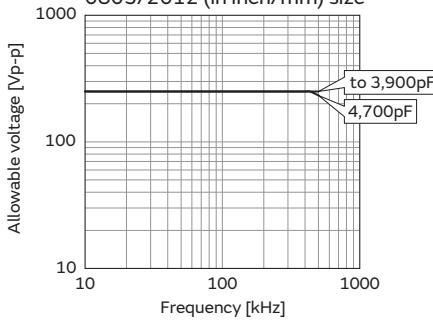
C0G (5C) char., Rated Voltage: DC200V



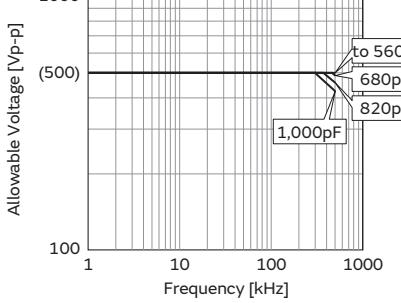
C0G (5C) char., Rated Voltage: DC250V  
 1206/3216 (in inch/mm) size



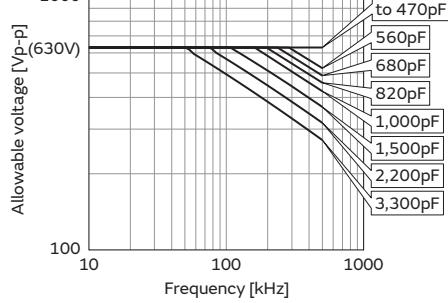
C0G (5C) char., Rated Voltage: DC250V  
 0805/2012 (in inch/mm) size



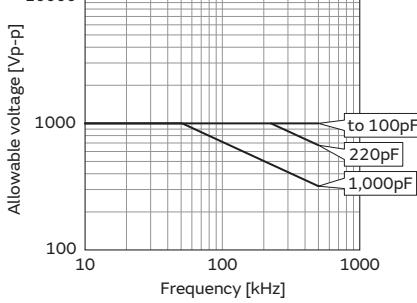
C0G (5C) char., Rated Voltage: DC500V



C0G char., Rated Voltage: DC630V



C0G char., Rated Voltage: DC1kV



The sine-wave frequency VS allowable voltage

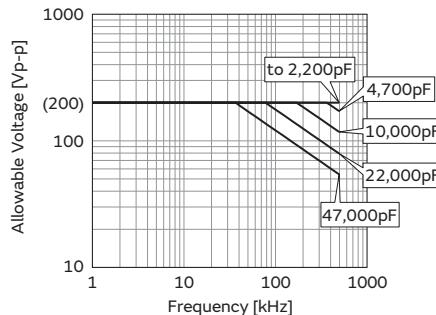
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## ⚠ Caution

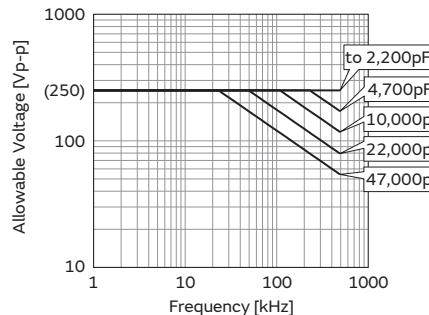
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The surface temperature of the capacitor: 125°C or less  
(including self-heating)

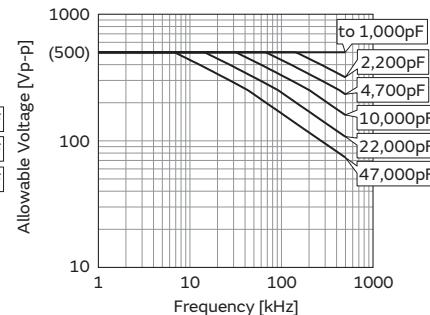
U2J (7U) char., Rated Voltage: DC200V



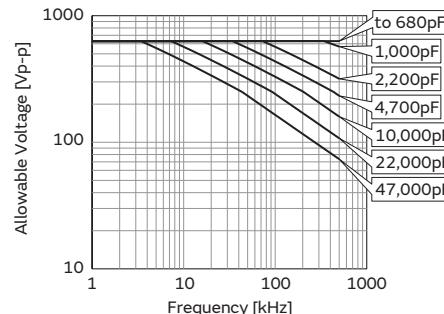
U2J (7U) char., Rated Voltage: DC250V



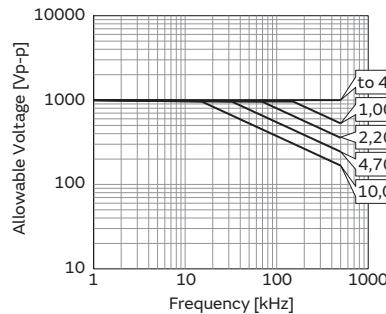
U2J (7U) char., Rated Voltage: DC500V



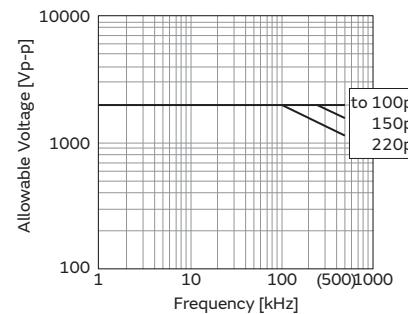
U2J (7U) char., Rated Voltage: DC630V



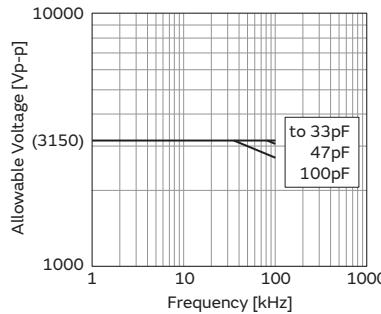
U2J (7U) char., Rated Voltage: DC1kV



U2J (7U) char., Rated Voltage: DC2kV



U2J (7U) char., Rated Voltage: DC3.15kV



The sine-wave frequency VS allowable voltage

Continued on the following page. ↗

## ⚠ Caution

Continued from the preceding page. ↴

### 5. DC Voltage and AC Voltage Characteristics

1. The capacitance value of a high dielectric constant type capacitor changes depending on the DC voltage applied. Please consider the DC voltage characteristics when a capacitor is selected for use in a DC circuit.

1-1. The capacitance of ceramic capacitors may change sharply depending on the applied voltage (see figure). Please confirm the following in order to secure the capacitance.

(1) Determine whether the capacitance change caused by the applied voltage is within the allowed range.

(2) In the DC voltage characteristics, the rate of capacitance change becomes larger as voltage increases, even if the applied voltage is below the rated voltage. When a high dielectric constant type capacitor is used in a circuit that requires a tight (narrow) capacitance tolerance (e.g., a time constant circuit), please carefully consider the voltage characteristics, and confirm the various characteristics in the actual operating conditions of the system.

2. The capacitance values of high dielectric constant type capacitors changes depending on the AC voltage applied. Please consider the AC voltage characteristics when selecting a capacitor to be used in an AC circuit.

### 6. Capacitance Aging

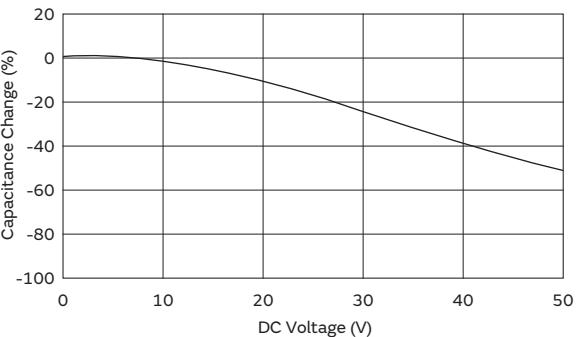
1. The high dielectric constant type capacitors have an Aging characteristic in which the capacitance value decreases with the passage of time.

When you use high dielectric constant type capacitors in a circuit that needs a tight (narrow) capacitance tolerance (e.g., a time-constant circuit), please carefully consider the characteristics of these capacitors, such as their aging, voltage, and temperature characteristics. In addition, check capacitors using your actual appliances at the intended environment and operating conditions.

#### [Example of DC Voltage Characteristics]

Sample: X7R (R7) Characteristics 0.1 $\mu$ F,

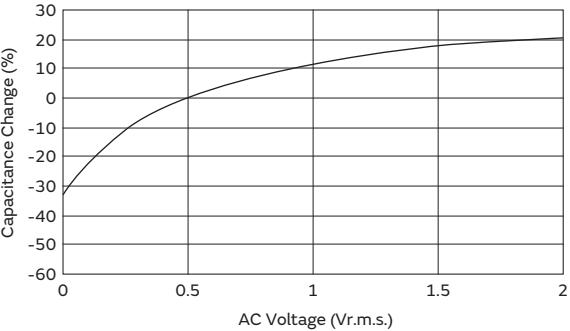
Rated Voltage 50VDC



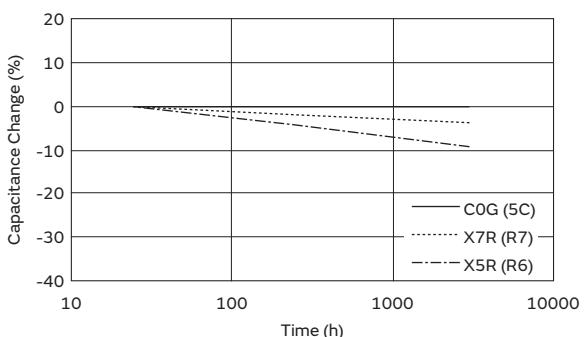
#### [Example of AC Voltage Characteristics]

Sample: X7R (R7) Characteristics 10 $\mu$ F,

Rated Voltage 6.3VDC



#### [Example of Change Over Time (Aging Characteristics)]



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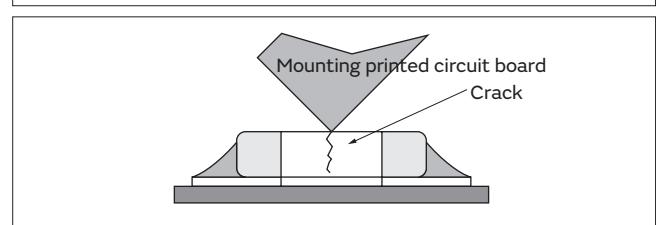
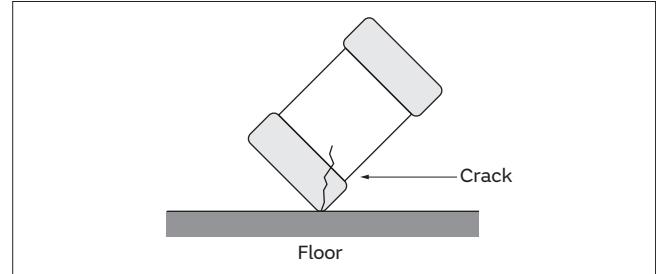
## Caution

Continued from the preceding page. ↳

### 7. Vibration and Shock

1. Please confirm the kind of vibration and/or shock, its condition, and any generation of resonance.  
Please mount the capacitor so as not to generate resonance, and do not allow any impact on the terminals.
2. Mechanical shock due to being dropped may cause damage or a crack in the dielectric material of the capacitor.  
Do not use a dropped capacitor because the quality and reliability may be deteriorated.

3. When printed circuit boards are piled up or handled, the corner of another printed circuit board should not be allowed to hit the capacitor, in order to avoid a crack or other damage to the capacitor.

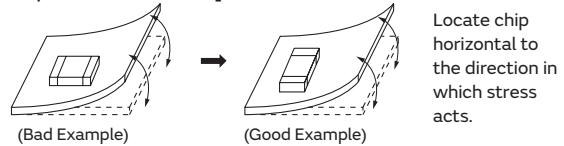


## Soldering and Mounting

### 1. Mounting Position

1. Confirm the best mounting position and direction that minimizes the stress imposed on the capacitor during flexing or bending the printed circuit board.
- 1-1. Choose a mounting position that minimizes the stress imposed on the chip during flexing or bending of the board.

#### [Component Direction]

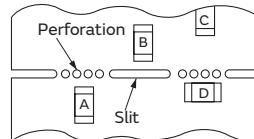


#### [Chip Mounting Close to Board Separation Point]

It is effective to implement the following measures, to reduce stress in separating the board.

It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

Contents of Measures	Stress Level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D *1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C

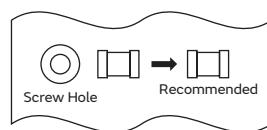


\*1 A > D is valid when stress is added vertically to the perforation as with Hand Separation.

If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

#### [Mounting Capacitors Near Screw Holes]

When a capacitor is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw. Mount the capacitor in a position as far away from the screw holes as possible.



Continued on the following page. ↗

## Caution

Continued from the preceding page. ↳

### 2. Information before Mounting

1. Do not re-use capacitors that were removed from the equipment.
2. Confirm capacitance characteristics under actual applied voltage.
3. Confirm the mechanical stress under actual process and equipment use.
4. Confirm the rated capacitance, rated voltage and other electrical characteristics before assembly.
5. Prior to use, confirm the solderability of capacitors that were in long-term storage.
6. Prior to measuring capacitance, carry out a heat treatment for capacitors that were in long-term storage.
7. The use of Sn-Zn based solder will deteriorate the reliability of the MLCC.  
Please contact our sales representative or product engineers on the use of Sn-Zn based solder in advance.
8. We have also produced a DVD which shows a summary of our recommendations, regarding the precautions for mounting. Please contact our sales representative to request the DVD.

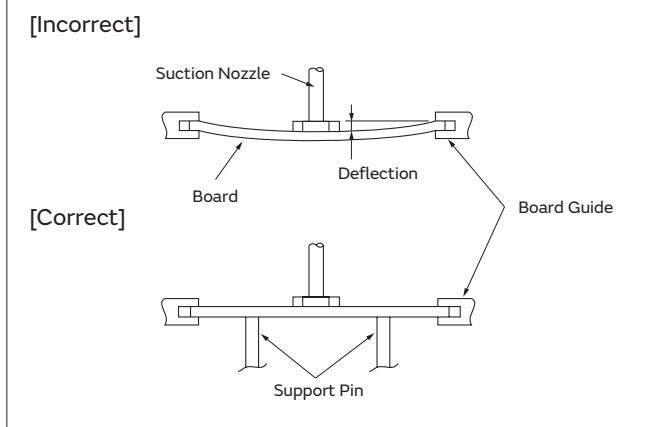
### 3. Maintenance of the Mounting (pick and place) Machine

1. Make sure that the following excessive forces are not applied to the capacitors.
  - 1-1. In mounting the capacitors on the printed circuit board, any bending force against them shall be kept to a minimum to prevent them from any damage or cracking. Please take into account the following precautions and recommendations for use in your process.
    - (1) Adjust the lowest position of the pickup nozzle so as not to bend the printed circuit board.
    - (2) Adjust the nozzle pressure within a static load of 1N to 3N during mounting.

2. Dirt particles and dust accumulated between the suction nozzle and the cylinder inner wall prevent the nozzle from moving smoothly. This imposes greater force upon the chip during mounting, causing cracked chips. Also, the locating claw, when worn out, imposes uneven forces on the chip when positioning, causing cracked chips. The suction nozzle and the locating claw must be maintained, checked, and replaced periodically.

<Applicable to ZRB Series>

3. To adjust the inspection tolerance for automated appearance sorting machine of mounting position, because ZRB series are easier to shift the mounting position than standard MLCC.
4. To check the overturn and reverse of chip.
5. To control mounting speed carefully, because ZRB series is heavier than standard MLCC.



Continued on the following page. ↳

## Caution

Continued from the preceding page. ↳

### 4-1. Reflow Soldering

- When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both the components and the PCB. Preheating conditions are shown in table 1. It is required to keep the temperature differential between the solder and the components surface ( $\Delta T$ ) as small as possible.
- When components are immersed in solvent after mounting, be sure to maintain the temperature difference ( $\Delta T$ ) between the component and the solvent within the range shown in table 1.

Table 1

Seies	Chip Dimension Code (L/W)	Temperature Differential
GRM/GJM/GQM/GR3/ GRJ/KRM/LLR	02/03/15/18/21/31	$\Delta T \leq 190^{\circ}\text{C}$
LLL	02/03/15/18/1U/21/31	
ZRB	15/18	$\Delta T \leq 130^{\circ}\text{C}$
GR3/GRJ/GRM/KR3/KRM	32/43/55	
LLA/LLM	18/21/31	
GQM	22	

#### Recommended Conditions

	Pb-Sn Solder	Lead Free Solder
Peak Temperature	230 to 250°C	240 to 260°C
Atmosphere	Air	Air or N <sub>2</sub>

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

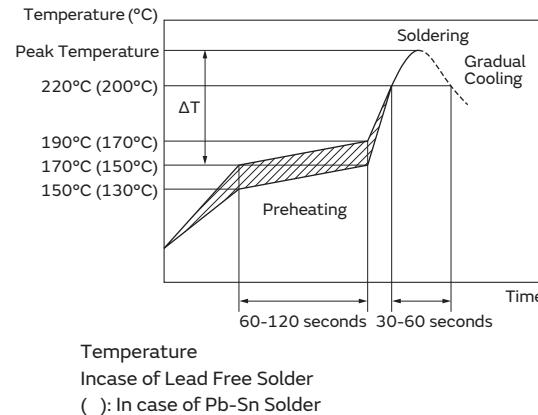
- When a capacitor is mounted at a temperature lower than the peak reflow temperature recommended by the solder manufacturer, the following quality problems can occur. Consider factors such as the placement of peripheral components and the reflow temperature setting to prevent the capacitor's reflow temperature from dropping below the peak temperature specified. Be sure to evaluate the mounting situation beforehand and verify that none of the following problems occur.

- Drop in solder wettability
- Solder voids
- Possible occurrence of whiskering
- Drop in bonding strength
- Drop in self-alignment properties
- Possible occurrence of tombstones and/or shifting on the land patterns of the circuit board

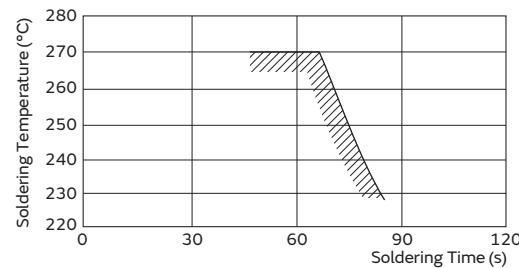
#### Inverting the PCB

Make sure not to impose any abnormal mechanical shocks to the PCB.

#### [Standard Conditions for Reflow Soldering]



#### [Allowable Reflow Soldering Temperature and Time]



In the case of repeated soldering, the accumulated soldering time must be within the range shown above.

### 4. Optimum Solder Amount for Reflow Soldering

- Overly thick application of solder paste results in a excessive solder fillet height. This makes the chip more susceptible to mechanical and thermal stress on the board and may cause the chips to crack.
- Too little solder paste results in a lack of adhesive strength on the termination, which may result in chips breaking loose from the PCB.
- Please confirm that solder has been applied smoothly to the termination.

## Caution

Continued from the preceding page. ↳

### 4-2. Flow Soldering

1. Do not apply flow soldering to chips not listed in table 2.

Table 2

Seies	Chip Dimension Code (L/W)	Temperature Differential
GR3/GRM	18/21/31	
GQM	18/21	
LLL	21/31	$\Delta T \leq 150^{\circ}\text{C}$
GRJ	18/21/31	

2. When sudden heat is applied to the components, the mechanical strength of the components will decrease because a sudden temperature change causes deformation inside the components. In order to prevent mechanical damage to the components, preheating is required for both of the components and the PCB. Preheating conditions are shown in table 2. It is required to keep the temperature differential between the solder and the components surface ( $\Delta T$ ) as low as possible.
3. Excessively long soldering time or high soldering temperature can result in leaching of the terminations, causing poor adhesion or a reduction in capacitance value due to loss of contact between the inner electrodes and terminations.
4. When components are immersed in solvent after mounting, be sure to maintain the temperature differential ( $\Delta T$ ) between the component and solvent within the range shown in the table 2.

### Recommended Conditions

	Pb-Sn Solder	Lead Free Solder
Preheating Peak Temperature	90 to 110°C	100 to 120°C
Soldering Peak Temperature	240 to 250°C	250 to 260°C
Atmosphere	Air	Air or N <sub>2</sub>

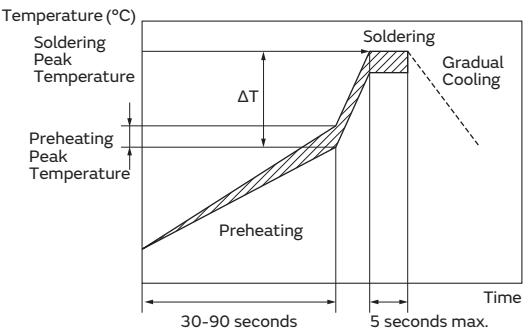
Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

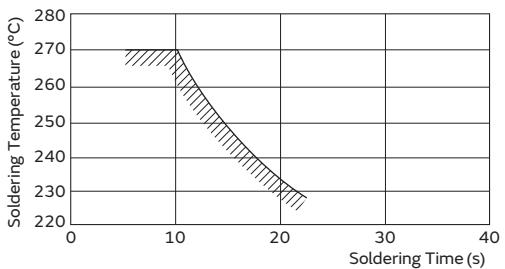
### 5. Optimum Solder Amount for Flow Soldering

- 5-1. The top of the solder fillet should be lower than the thickness of the components. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.

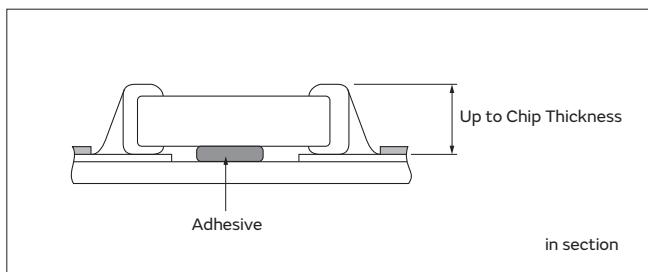
### [Standard Conditions for Flow Soldering]



### [Allowable Flow Soldering Temperature and Time]



In the case of repeated soldering, the accumulated soldering time must be within the range shown above.



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## Caution

Continued from the preceding page. ↳

### 4-3. Correction of Soldered Portion

When sudden heat is applied to the capacitor, distortion caused by the large temperature difference occurs internally, and can be the cause of cracks. Capacitors also tend to be affected by mechanical and thermal stress depending on the board preheating temperature or the soldering fillet shape, and can be the cause of cracks. Please refer to "1. PCB Design" or "3. Optimum solder amount" for the solder amount and the fillet shapes.

Do not correct with a soldering iron for ZRB series.

Correction with a soldering iron for ZRB series may cause loss suppress acoustic noise, because the solder amount become excessive.

#### 1. Correction with a Soldering Iron

1-1. In order to reduce damage to the capacitor, be sure to preheat the capacitor and the mounting board.

Preheat to the temperature range shown in Table 3.

A hot plate, hot air type preheater, etc. can be used for preheating.

1-2. After soldering, do not allow the component/PCB to cool down rapidly.

1-3. Perform the corrections with a soldering iron as quickly as possible. If the soldering iron is applied too long, there is a possibility of causing solder leaching on the terminal electrodes, which will cause deterioration of the adhesive strength and other problems.

Table 3

Seies	Chip Dimension Code (L/W)	Temperature of Soldering Iron Tip	Preheating Temperature	Temperature Differential ( $\Delta T$ )	Atmosphere
GJM/GQM/GR3/GRJ/GRM	03/15/18/21/31	350°C max.	150°C min.	$\Delta T \leq 190^\circ\text{C}$	Air
GRJ/GRM	32/43/55	280°C max.	150°C min.	$\Delta T \leq 130^\circ\text{C}$	Air
GQM	22				

\*Applicable for both Pb-Sn and Lead Free Solder.

Pb-Sn Solder: Sn-37Pb

Lead Free Solder: Sn-3.0Ag-0.5Cu

\*Please manage  $\Delta T$  in the temperature of soldering iron and the preheating temperature.

#### 2. Correction with Spot Heater

Compared to local heating with a soldering iron, hot air heating by a spot heater heats the overall component and board, therefore, it tends to lessen the thermal shock. In the case of a high density mounted board, a spot heater can also prevent concerns of the soldering iron making direct contact with the component.

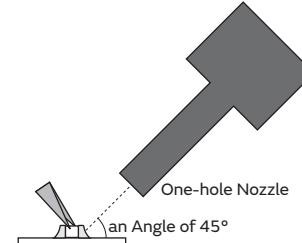
2-1. If the distance from the hot air outlet of the spot heater to the component is too close, cracks may occur due to thermal shock. To prevent this problem, follow the conditions shown in Table 4.

2-2. In order to create an appropriate solder fillet shape, it is recommended that hot air be applied at the angle shown in Figure 1.

Table 4

Distance	5mm or more
Hot Air Application Angle	45° *Figure 1
Hot Air Temperature Nozzle Outlet	400°C max.
Application Time	Less than 10 seconds (1206 (3216 in mm) size or smaller) Less than 30 seconds (1210 (3225 in mm) size or larger)

[Figure 1]

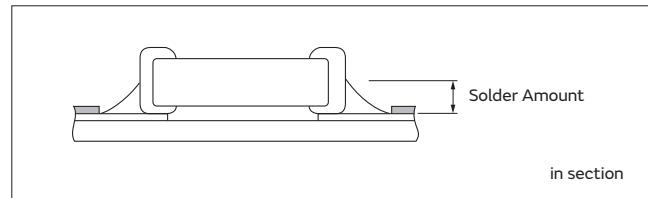


#### 3. Optimum solder amount when re-working with a soldering iron

3-1. If the solder amount is excessive, the risk of cracking is higher during board bending or any other stressful condition.

Too little solder amount results in a lack of adhesive strength on the termination, which may result in chips breaking loose from the PCB.

Please confirm that solder has been applied smoothly and rising to the end surface of the chip.



Continued on the following page. ↳

## Caution

Continued from the preceding page. ↳

3-2. A soldering iron with a tip of Ø3mm or smaller should be used. It is also necessary to keep the soldering iron from touching the components during the re-work.

3-3. Solder wire with Ø0.5mm or smaller is required for soldering.

<Applicable to KR3/KRM Series>

4. For the shape of the soldering iron tip, refer to the figure on the right.

Regarding the type of solder, use a wire diameter of Ø0.5mm or less (rosin core wire solder).

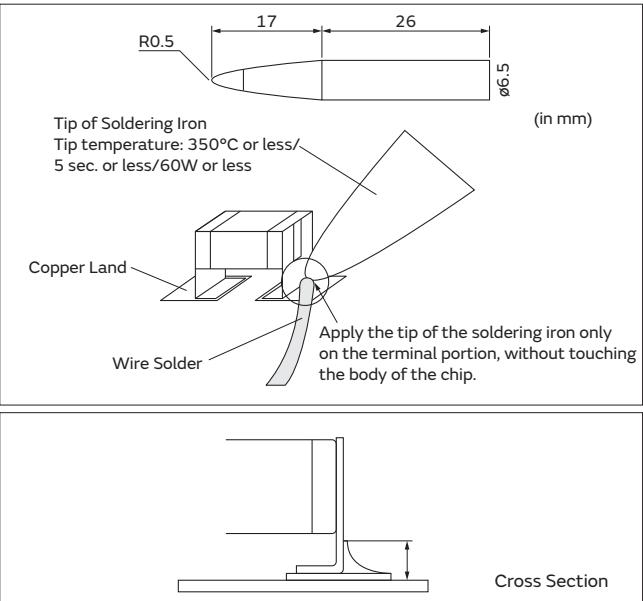
### 4-1. How to Apply the Soldering Iron

Apply the tip of the soldering iron against the lower end of the metal terminal.

- 1) In order to prevent cracking caused by sudden heating of the ceramic device, do not touch the ceramic base directly.
- 2) In order to prevent deviations and dislocating of the chip, do not touch the junction of the chip and the metal terminal, and the metal portion on the outside directly.

### 4-2. Appropriate Amount of Solder

The amount of solder for corrections by soldering iron, should be lower than the height of the lower side of the chip.



## 5. Washing

Excessive ultrasonic oscillation during cleaning can cause the PCBs to resonate, resulting in cracked chips or broken solder joints. Take note not to vibrate PCBs.

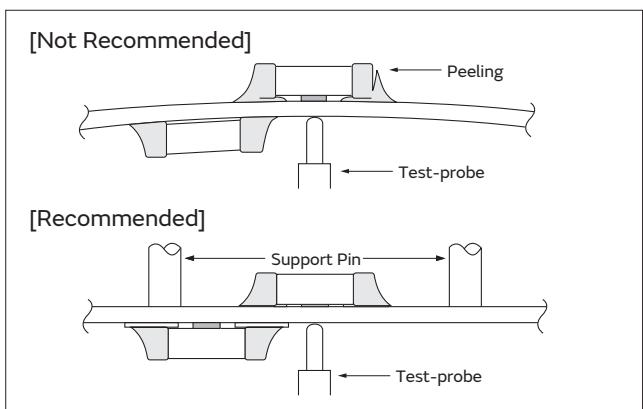
## 6. Electrical Test on Printed Circuit Board

1. Confirm position of the support pin or specific jig, when inspecting the electrical performance of a capacitor after mounting on the printed circuit board.

1-1. Avoid bending the printed circuit board by the pressure of a test-probe, etc.

The thrusting force of the test probe can flex the PCB, resulting in cracked chips or open solder joints. Provide support pins on the back side of the PCB to prevent warping or flexing. Install support pins as close to the test-probe as possible.

1-2. Avoid vibration of the board by shock when a test-probe contacts a printed circuit board.



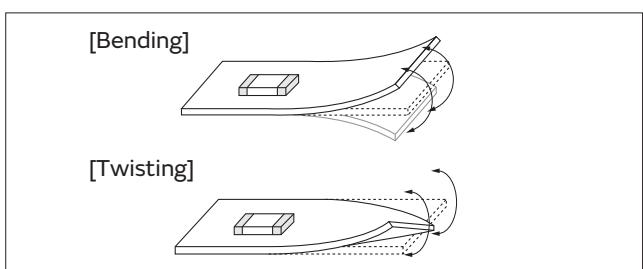
## 7. Printed Circuit Board Cropping

1. After mounting a capacitor on a printed circuit board, do not apply any stress to the capacitor that causes bending or twisting the board.

1-1. In cropping the board, the stress as shown at right may cause the capacitor to crack.

Cracked capacitors may cause deterioration of the insulation resistance, and result in a short.

Avoid this type of stress to a capacitor.



Continued on the following page. ↳

## Caution

Continued from the preceding page. ↳

2. Check the cropping method for the printed circuit board in advance.

2-1. Printed circuit board cropping shall be carried out by using a jig or an apparatus (Disc separator, router type separator, etc.) to prevent the mechanical stress that can occur to the board.

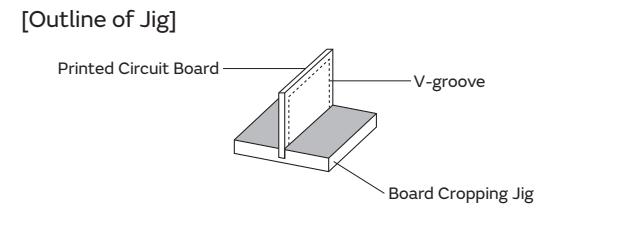
Board Separation Method	Hand Separation Nipper Separation	(1) Board Separation Jig	Board Separation Apparatus	
			(2) Disc Separator	(3) Router Type Separator
Level of stress on board	High	Medium	Medium	Low
Recommended	×	△*	△*	○
Notes	Hand and nipper separation apply a high level of stress. Use another method.	<ul style="list-style-type: none"> <li>• Board handling</li> <li>• Board bending direction</li> <li>• Layout of capacitors</li> </ul>	<ul style="list-style-type: none"> <li>• Board handling</li> <li>• Layout of slits</li> <li>• Design of V groove</li> <li>• Arrangement of blades</li> <li>• Controlling blade life</li> </ul>	Board handling

\* When a board separation jig or disc separator is used, if the following precautions are not observed, a large board deflection stress will occur and the capacitors may crack. Use router type separator if at all possible.

### (1) Example of a suitable jig

#### [In the case of Single-side Mounting]

An outline of the board separation jig is shown as follows. Recommended example: Stress on the component mounting position can be minimized by holding the portion close to the jig, and bend in the direction towards the side where the capacitors are mounted. Not recommended example: The risk of cracks occurring in the capacitors increases due to large stress being applied to the component mounting position, if the portion away from the jig is held and bent in the direction opposite the side where the capacitors are mounted.



### Hand Separation

Recommended	Not Recommended
<p>Printed Circuit Board</p> <p>Components</p> <p>Load Point</p> <p>Direction of Load</p>	<p>Printed Circuit Board</p> <p>Components</p> <p>Load Point</p> <p>Direction of Load</p>

#### [In the case of Double-sided Mounting]

Since components are mounted on both sides of the board, the risk of cracks occurring can not be avoided with the above method. Therefore, implement the following measures to prevent stress from being applied to the components.

### (Measures)

- (1) Consider introducing a router type separator. If it is difficult to introduce a router type separator, implement the following measures. (Refer to item 1. Mounting Position)
- (2) Mount the components parallel to the board separation surface.
- (3) When mounting components near the board separation point, add slits in the separation position near the component.
- (4) Keep the mounting position of the components away from the board separation point.

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## Caution

Continued from the preceding page. ↗

### (2) Example of a Disc Separator

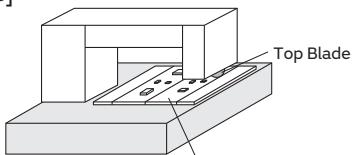
An outline of a disc separator is shown as follows. As shown in the Principle of Operation, the top blade and bottom blade are aligned with the V-grooves on the printed circuit board to separate the board.

In the following case, board deflection stress will be applied and cause cracks in the capacitors.

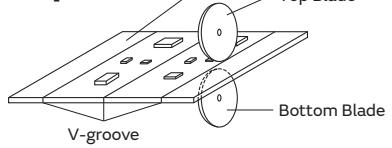
- (1) When the adjustment of the top and bottom blades are misaligned, such as deviating in the top-bottom, left-right or front-rear directions
- (2) The angle of the V groove is too low, depth of the V groove is too shallow, or the V groove is misaligned top-bottom

If V groove is too deep, it is possible to brake when you handle and carry it. Carefully design depth of the V groove with consideration about strength of material of the printed circuit board.

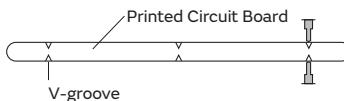
#### [Outline of Machine]



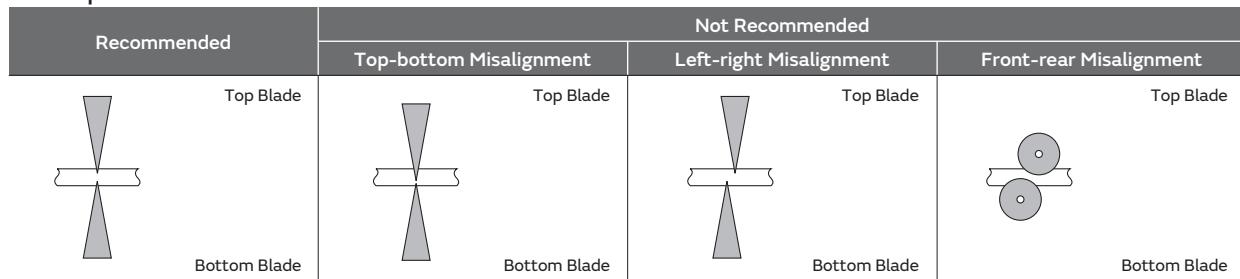
#### [Principle of Operation]



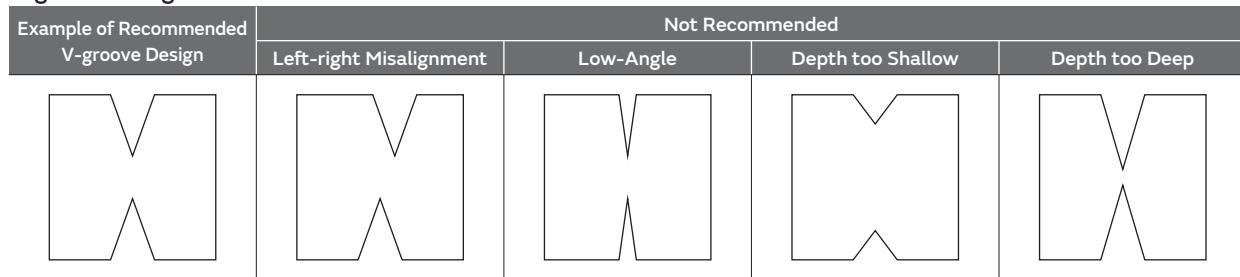
#### [Cross-section Diagram]



### Disc Separator



### V-groove Design

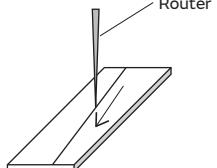


### (3) Example of Router Type Separator

The router type separator performs cutting by a router rotating at a high speed. Since the board does not bend in the cutting process, stress on the board can be suppressed during board separation.

When attaching or removing boards to/from the router type separator, carefully handle the boards to prevent bending.

#### [Outline Drawing]



Continued on the following page. ↗

## ⚠ Caution

Continued from the preceding page. ↵

### 8. Assembly

#### 1. Handling

If a board mounted with capacitors is held with one hand, the board may bend. Firmly hold the edges of the board with both hands when handling.

If a board mounted with capacitors is dropped, cracks may occur in the capacitors.

Do not use dropped boards, as there is a possibility that the quality of the capacitors may be impaired.

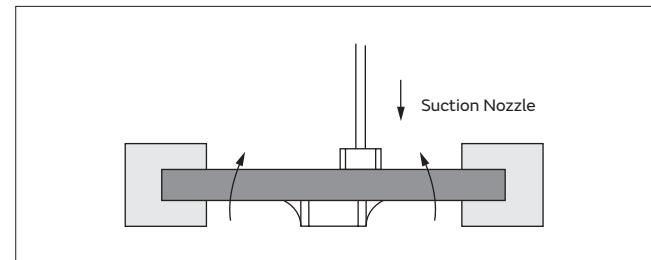
#### 2. Attachment of Other Components

##### 2-1. Mounting of Other Components

Pay attention to the following items, when mounting other components on the back side of the board after capacitors have been mounted on the opposite side.

When the bottom dead point of the suction nozzle is set too low, board deflection stress may be applied to the capacitors on the back side (bottom side), and cracks may occur in the capacitors.

- After the board is straightened, set the bottom dead point of the nozzle on the upper surface of the board.
- Periodically check and adjust the bottom dead point.

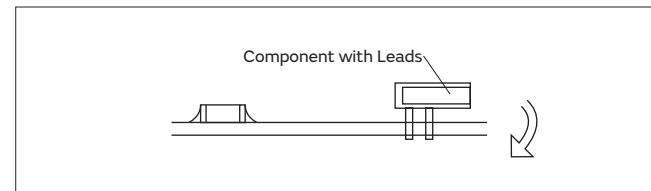


##### 2-2. Inserting Components with Leads into Boards

When inserting components (transformers, IC, etc.) into boards, bending the board may cause cracks in the capacitors or cracks in the solder.

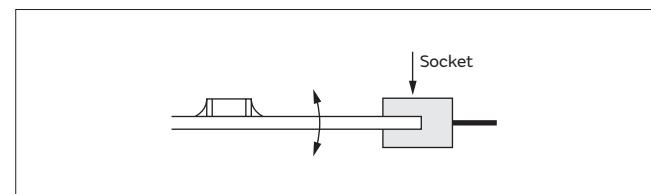
Pay attention to the following.

- Increase the size of the holes to insert the leads, to reduce the stress on the board during insertion.
- Fix the board with support pins or a dedicated jig before insertion.
- Support below the board so that the board does not bend. When using multiple support pins on the board, periodically confirm that there is no difference in the height of each support pin.



##### 2-3. Attaching/Removing Sockets

When the board itself is a connector, the board may bend when a socket is attached or removed. Plan the work so that the board does not bend when a socket is attached or removed.

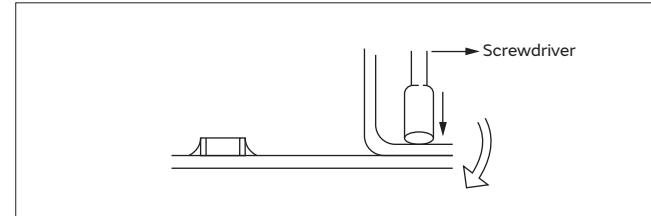


##### 2-4. Tightening Screws

The board may be bent, when tightening screws, etc. during the attachment of the board to a shield or chassis.

Pay attention to the following items before performing the work.

- Plan the work to prevent the board from bending.
- Use a torque screwdriver, to prevent over-tightening of the screws.
- The board may bend after mounting by reflow soldering, etc. Please note, as stress may be applied to the chips by forcibly flattening the board when tightening the screws.



Continued on the following page. ↗

## Caution

Continued from the preceding page. ↳

<Applicable to GMA or GMD Series>

### 9. Die Bonding/Wire Bonding

#### 1. Die Bonding of Capacitors

##### 1-1. Use the following materials for the Brazing alloys:

Au-Sn (80/20) 300 to 320 °C in N<sub>2</sub> atmosphere

##### 1-2. Mounting

(1) Control the temperature of the substrate so it

matches the temperature of the brazing alloy.

(2) Place the brazing alloy on the substrate and place the capacitor on the alloy. Hold the capacitor and gently apply the load. Be sure to complete the operation within 1 minute.

#### 2. Wire Bonding

##### 2-1. Wire

Gold wire: 25 micro m (0.001 inch) diameter

##### 2-2. Bonding

(1) Thermo compression, ultrasonic ball bonding.

(2) Required stage temperature: 150 to 200 °C

(3) Required wedge or capillary weight: 0.2N to 0.5N

(4) Bond the capacitor and base substrate or other devices with gold wire.

## Other

### 1. Under Operation of Equipment

1-1. Do not touch a capacitor directly with bare hands during operation in order to avoid the danger of an electric shock.

1-2. Do not allow the terminals of a capacitor to come in contact with any conductive objects (short-circuit). Do not expose a capacitor to a conductive liquid, including any acid or alkali solutions.

1-3. Confirm the environment in which the equipment will operate is under the specified conditions. Do not use the equipment under the following environments.

(1) Being spattered with water or oil.

(2) Being exposed to direct sunlight.

(3) Being exposed to ozone, ultraviolet rays, or radiation.

(4) Being exposed to toxic gas (e.g., hydrogen sulfide, sulfur dioxide, chlorine, ammonia gas, etc.)

(5) Any vibrations or mechanical shocks exceeding the specified limits.

(6) Moisture condensing environments.

1-4. Use damp proof countermeasures if using under any conditions that can cause condensation.

### 2. Other

#### 2-1. In an Emergency

(1) If the equipment should generate smoke, fire, or smell, immediately turn off or unplug the equipment.

If the equipment is not turned off or unplugged, the hazards may be worsened by supplying continuous power.

(2) In this type of situation, do not allow face and hands to come in contact with the capacitor or burns may be caused by the capacitor's high temperature.

#### 2-2. Disposal of Waste

When capacitors are disposed of, they must be burned or buried by an industrial waste vendor with the appropriate licenses.

#### 2-3. Circuit Design

##### (1) Addition of Fail Safe Function

Capacitors that are cracked by dropping or bending of the board may cause deterioration of the insulation resistance, and result in a short. If the circuit being used may cause an electrical shock, smoke or fire when a capacitor is shorted, be sure to install fail-safe functions, such as a fuse, to prevent secondary accidents.

(2) Capacitors used to prevent electromagnetic interference in the primary AC side circuit, or as a connection/insulation, must be a safety standard certified product, or satisfy the contents stipulated in the Electrical Appliance and Material Safety Law. Install a fuse for each line in case of a short.

(3) The GJM, GMA, GMD, GQM, GR3, GRJ, GRM, KR3, KRM, LLA, LLL, LLM, LLR and ZRB series are not safety standard certified products.

#### 2-4. Remarks

Failure to follow the cautions may result, worst case, in a short circuit and smoking when the product is used.

The above notices are for standard applications and conditions. Contact us when the products are used in special mounting conditions.

Select optimum conditions for operation as they determine the reliability of the product after assembly.

The data herein are given in typical values, not guaranteed ratings.

## Notice

### Rating

#### 1. Operating Temperature

1. The operating temperature limit depends on the capacitor.

1-1. Do not apply temperatures exceeding the maximum operating temperature.

It is necessary to select a capacitor with a suitable rated temperature that will cover the operating temperature range.

It is also necessary to consider the temperature distribution in equipment and the seasonal temperature variable factor.

1-2. Consider the self-heating factor of the capacitor.

The surface temperature of the capacitor shall not exceed the maximum operating temperature including self-heating.

#### 2. Atmosphere Surroundings (gaseous and liquid)

1. Restriction on the operating environment of capacitors.

1-1. Capacitors, when used in the above, unsuitable,

operating environments may deteriorate due to the corrosion of the terminations and the penetration of moisture into the capacitor.

1-2. The same phenomenon as the above may occur when the electrodes or terminals of the capacitor are subject to moisture condensation.

1-3. The deterioration of characteristics and insulation resistance due to the oxidization or corrosion of terminal electrodes may result in breakdown when the capacitor is exposed to corrosive or volatile gases or solvents for long periods of time.

#### 3. Piezo-electric Phenomenon

1. When using high dielectric constant type capacitors in AC or pulse circuits, the capacitor itself vibrates at specific frequencies and noise may be generated.

Moreover, when the mechanical vibration or shock is added to the capacitor, noise may occur.

### Soldering and Mounting

#### 1. PCB Design

##### 1. Notice for Pattern Forms

1-1. Unlike leaded components, chip components are susceptible to flexing stresses since they are mounted directly on the substrate.

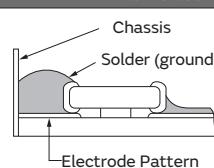
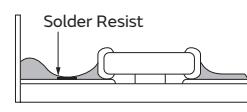
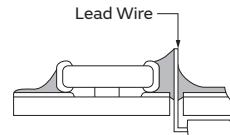
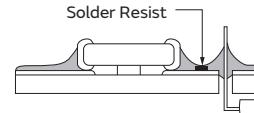
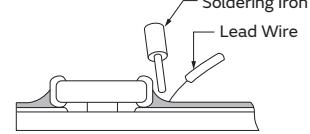
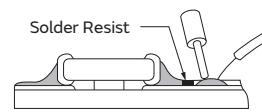
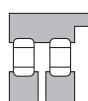
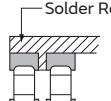
They are also more sensitive to mechanical and thermal stresses than leaded components.

Excess solder fillet height can multiply these stresses and cause chip cracking. When designing substrates, take land patterns and dimensions into consideration to eliminate the possibility of excess solder fillet height.

1-2. There is a possibility of chip cracking caused by PCB expansion/contraction with heat, because stress on a chip is different depending on PCB material and structure. When the thermal expansion coefficient greatly differs between the board used for mounting and the chip, it will cause cracking of the chip due to the thermal expansion and contraction.

When capacitors are mounted on a fluorine resin printed circuit board or on a single-layered glass epoxy board, it may also cause cracking of the chip for the same reason.

##### Pattern Forms

	Prohibited	Correct
Placing Close to Chassis		
Placing of Chip Components and Leaded Components		
Placing of Leaded Components after Chip Component		
Lateral Mounting		

Continued on the following page. ↗

## Notice

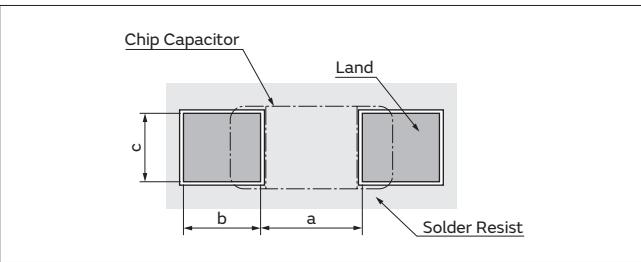
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### 2. Land Dimensions

2-1. Chip capacitors can be cracked due to the stress of PCB bending, etc. if the land area is larger than needed and has an excess amount of solder.

Please refer to the land dimensions in table 1 for flow soldering, table 2 for reflow soldering, table 3 for reflow soldering for ZRB Series, table 4 for reflow soldering for LLA Series, table 5 for reflow soldering for LLM Series.

Please confirm the suitable land dimension by evaluating of the actual SET / PCB.



**Table 1 Flow Soldering Method**

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b	c
GQM/GR3/GRJ/GRM	18	1.6×0.8	0.6 to 1.0	0.8 to 0.9	0.6 to 0.8
GQM/GR3/GRJ/GRM	21	2.0×1.25	1.0 to 1.2	0.9 to 1.0	0.8 to 1.1
GR3/GRJ/GRM	31	3.2×1.6	2.2 to 2.6	1.0 to 1.1	1.0 to 1.4
LLL	21	1.25×2.0	0.4 to 0.7	0.5 to 0.7	1.4 to 1.8
LLL	31	1.6×3.2	0.6 to 1.0	0.8 to 0.9	2.6 to 2.8

Flow soldering can only be used for products with a chip size from 1.6x0.8mm to 3.2x1.6mm.

(in mm)

**Table 2 Reflow Soldering Method**

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b	c
GJM/GRM	02	0.4×0.2	0.16 to 0.2	0.12 to 0.18	0.2 to 0.23
GJM/GRM	03	0.6×0.3 ( $\pm 0.03$ )	0.2 to 0.25	0.2 to 0.3	0.25 to 0.35
		0.6×0.3 ( $\pm 0.05$ )	0.2 to 0.25	0.25 to 0.35	0.3 to 0.4
		0.6×0.3 ( $\pm 0.09$ )	0.23 to 0.3	0.25 to 0.35	0.3 to 0.4
GJM/GRM	15	1.0×0.5 (within $\pm 0.10$ )	0.3 to 0.5	0.35 to 0.45	0.4 to 0.6
		1.0×0.5 ( $\pm 0.15/\pm 0.20$ )	0.4 to 0.6	0.4 to 0.5	0.5 to 0.7
GQM/GR3/GRJ/GRM	18	1.6×0.8 (within $\pm 0.10$ )	0.6 to 0.8	0.6 to 0.7	0.6 to 0.8
		1.6×0.8 ( $\pm 0.15/\pm 0.20$ )	0.7 to 0.9	0.7 to 0.8	0.8 to 1.0
GQM	21	2.0×1.25	1.0 to 1.2	0.6 to 0.7	0.8 to 1.1
GR3/GRJ/GRM	21	2.0×1.25 (within $\pm 0.10$ )	1.2	0.6	1.25
		2.0×1.25 ( $\pm 0.15$ )	1.2	0.6 to 0.8	1.2 to 1.4
		2.0×1.25 ( $\pm 0.20$ )	1.0 to 1.4	0.6 to 0.8	1.2 to 1.4
GR3/GRJ/GRM	31	3.2×1.6 (within $\pm 0.20$ )	1.8 to 2.0	0.9 to 1.2	1.5 to 1.7
		3.2×1.6 ( $\pm 0.30$ )	1.9 to 2.1	1.0 to 1.3	1.7 to 1.9
GR3/GRJ/GRM	32	3.2×2.5	2.0 to 2.4	1.0 to 1.2	1.8 to 2.3
GR3/GRJ/GRM	43	4.5×3.2	3.0 to 3.5	1.2 to 1.4	2.3 to 3.0
GR3/GRJ/GRM	55	5.7×5.0	4.0 to 4.6	1.4 to 1.6	3.5 to 4.8
LLL	15	0.5×1.0	0.15 to 0.2	0.2 to 0.25	0.7 to 1.0
LLL	1U	0.6×1.0	0.20 to 0.25	0.25 to 0.35	0.7 to 1.0
LLL/LLR	18	0.8×1.6	0.2 to 0.3	0.3 to 0.4	1.4 to 1.6
LLL	21	1.25×2.0	0.4 to 0.5	0.4 to 0.5	1.4 to 1.8
LLL	31	1.6×3.2	0.6 to 0.8	0.6 to 0.7	2.6 to 2.8
GQM	22	2.8×2.8	2.2 to 2.5	0.8 to 1.0	1.9 to 2.3

(in mm)

<Applicable to Part Number KRM/KR3>

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b	c
KRM	21	2.0×1.25	1.0 to 1.2	0.6 to 0.7	0.8 to 1.1
KRM	31	3.2×1.6	2.2 to 2.4	0.8 to 0.9	1.0 to 1.4
KR3/KRM	55	5.7×5.0	2.6	2.7	5.6

(in mm)

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## Notice

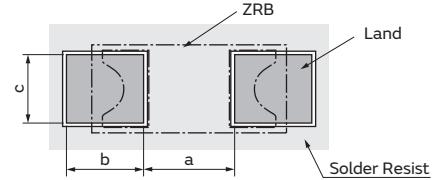
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**Table 3 ZRB Series Reflow Soldering Method**

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b	c
ZRB	<b>15</b>	1.0×0.5	0.4 to 0.6	0.4 to 0.5	0.5 to 0.7
ZRB	<b>18*</b>	1.6×0.8	0.7 to 0.9	0.7 to 0.8	0.8 to 1.0

\*If distance between parts is too short, there is risk to cause (in mm)  
 electrical short. Please confirm the mounting pitch  
 (distance between centers of parts) has 1.275mm or more.  
 (ZRB18 only)

[Land for ZRB Series]



**Table 4 LLA Series Reflow Soldering Method**

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b	c	p
LLA	<b>18</b>	1.6×0.8	0.3 to 0.4	0.25 to 0.35	0.15 to 0.25	0.4
LLA	<b>21</b>	2.0×1.25	0.5 to 0.7	0.35 to 0.6	0.2 to 0.3	0.5
LLA	<b>31</b>	3.2×1.6	0.7 to 0.9	0.4 to 0.7	0.3 to 0.4	0.8

(in mm)

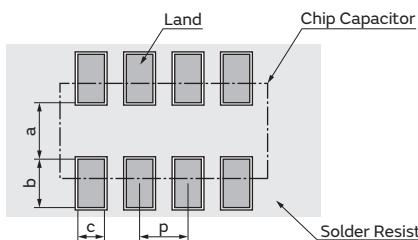
**Table 5 LLM Series Reflow Soldering Method**

Seies	Chip Dimension Code (L/W)	Chip (L×W)	a	b, b'	c, c'	d	e	f	p
LLM	<b>21</b>	2.0×1.25	0.6 to 0.8	(0.3 to 0.5)	0.3	2.0 to 2.6	1.3 to 1.8	1.4 to 1.6	0.5
LLM	<b>31</b>	3.2×1.6	1.0	(0.3 to 0.5)	0.4	3.2 to 3.6	1.6 to 2.0	2.6	0.8

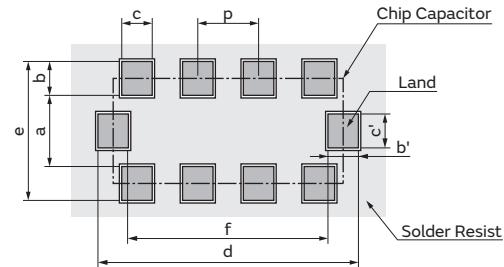
$b=(c-e)/2, b'=(d-f)/2$

(in mm)

[Land for LLA Series]



[Land for LLM Series]



### <Applicable to beyond Rated Voltage of 200VDC>

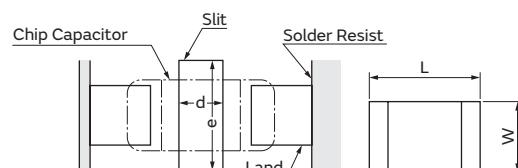
#### 2-2. Dimensions of Slit (Example)

Preparing the slit helps flux cleaning and resin coating on the back of the capacitor.

However, the length of the slit design should be as short as possible to prevent mechanical damage in the capacitor.

A longer slit design might receive more severe mechanical stress from the PCB.

Recommended slit design is shown in the Table.



L×W	d	e
1.6×0.8	—	—
2.0×1.25	—	—
3.2×1.6	1.0 to 2.0	3.2 to 3.7
3.2×2.5	1.0 to 2.0	4.1 to 4.6
4.5×2.0	1.0 to 2.8	3.6 to 4.1
4.5×3.2	1.0 to 2.8	4.8 to 5.3
5.7×2.8	1.0 to 4.0	4.4 to 4.9
5.7×5.0	1.0 to 4.0	6.6 to 7.1

(in mm)

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## Notice

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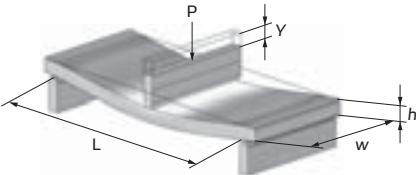
### 3. Board Design

When designing the board, keep in mind that the amount of strain which occurs will increase depending on the size and material of the board.

$$\varepsilon = \frac{3PL}{2Ewh^2}$$

Relationship between load and strain

ε: Strain on center of board ( $\mu\text{st}$ )  
 L: Distance between supporting points (mm)  
 w: Board width (mm)  
 h: Board thickness (mm)  
 E: Elastic modulus of board (N/m<sup>2</sup>=Pa)  
 Y: Deflection (mm)  
 P: Load (N)



When the load is constant, the following relationship can be established.

- As the distance between the supporting points (L) increases, the amount of strain also increases.  
→Reduce the distance between the supporting points.
  - As the elastic modulus (E) decreases, the amount of strain increases.  
→Increase the elastic modulus.
  - As the board width (w) decreases, the amount of strain increases.  
→Increase the width of the board.
  - As the board thickness (h) decreases, the amount of strain increases.  
→Increase the thickness of the board.
- Since the board thickness is squared, the effect on the amount of strain becomes even greater.

### 2. Adhesive Application

1. Thin or insufficient adhesive can cause the chips to loosen or become disconnected during flow soldering.

The amount of adhesive must be more than dimension c, shown in the drawing at right, to obtain the correct bonding strength.

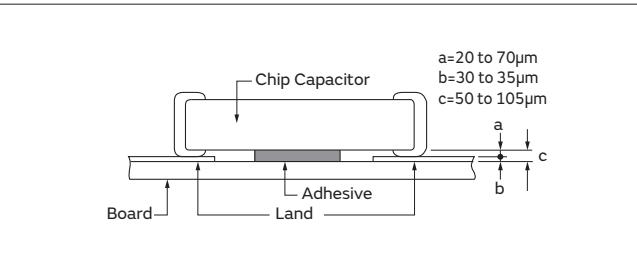
The chip's electrode thickness and land thickness must also be taken into consideration.

2. Low viscosity adhesive can cause chips to slip after mounting. The adhesive must have a viscosity of 5000Pa · s (500ps) min. (at 25°C).

### 3. Adhesive Coverage

Size (L×W) (in mm)	Adhesive Coverage*
1.6×0.8	0.05mg min.
2.0×1.25	0.1mg min.
3.2×1.6	0.15mg min.

\*Nominal Value



### 3. Adhesive Curing

1. Insufficient curing of the adhesive can cause chips to disconnect during flow soldering and causes deterioration in the insulation resistance between the terminations due to moisture absorption.

Control curing temperature and time in order to prevent insufficient hardening.

Continued on the following page. ↗

## Notice

Continued from the preceding page. ↗

### 4. Flux for Flow Soldering

1. An excessive amount of flux generates a large quantity of flux gas, which can cause a deterioration of solderability, so apply flux thinly and evenly throughout. (A foaming system is generally used for flow soldering.)
2. Flux containing too high a percentage of halide may cause corrosion of the terminations unless there is sufficient cleaning. Use flux with a halide content of 0.1% max.
3. Do not use strong acidic flux.

### 5. Flow Soldering

- Set temperature and time to ensure that leaching of the terminations does not exceed 25% of the chip end area as a single chip (full length of the edge A-B-C-D shown at right) and 25% of the length A-B shown as mounted on substrate.

### 6. Reflow Soldering

The halogen system substance and organic acid are included in solder paste, and a chip corrodes by this kind of solder paste.

### 7. Washing

1. Please evaluate the capacitor using actual cleaning equipment and conditions to confirm the quality, and select the solvent for cleaning.
2. Unsuitable cleaning solvent may leave residual flux or other foreign substances, causing deterioration of electrical characteristics and the reliability of the capacitors.

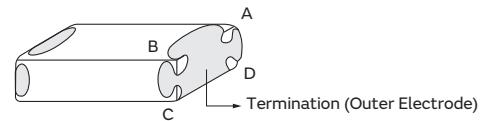
### 8. Coating

1. A crack may be caused in the capacitor due to the stress of the thermal contraction of the resin during curing process.  
The stress is affected by the amount of resin and curing contraction.  
Select a resin with low curing contraction.  
The difference in the thermal expansion coefficient between a coating resin or a molding resin and the capacitor may cause the destruction and deterioration of the capacitor such as a crack or peeling, and lead to the deterioration of insulation resistance or dielectric breakdown.  
Select a resin for which the thermal expansion coefficient is as close to that of the capacitor as possible.  
A silicone resin can be used as an under-coating to buffer against the stress.

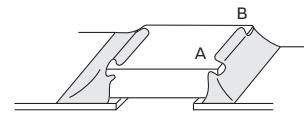
### 4. Do not use water-soluble flux.\*

(\*Water-soluble flux can be defined as non-rosin type flux including wash-type flux and non-wash-type flux.)

#### [As a Single Chip]



#### [As Mounted on Substrate]



Do not use strong acid flux.

Do not use water-soluble flux\*.

(\*Water-soluble flux can be defined as non-rosin type flux including wash-type flux and non-wash-type flux.)

### 3. Select the proper cleaning conditions.

3-1. Improper cleaning conditions (excessive or insufficient) may result in deterioration of the performance of the capacitors.

### 2. Select a resin that is less hygroscopic.

Using hygroscopic resins under high humidity conditions may cause the deterioration of the insulation resistance of a capacitor.

An epoxy resin can be used as a less hygroscopic resin.

### 3. The halogen system substance and organic acid are included in coating material, and a chip corrodes by the kind of Coating material.

Do not use strong acid type.

#### <Applicable to ZRB Series>

4. Loss suppress acoustic noise may be caused in ZRB series due to the resin during curing process. Please contact our sales representative or product engineers on the apply to resin during curing process.

Continued on the following page. ↗

## Notice

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### Other

#### 1. Transportation

1. The performance of a capacitor may be affected by the conditions during transportation.

1-1. The capacitors shall be protected against excessive temperature, humidity, and mechanical force during transportation.

(1) Climatic condition

- low air temperature: -40°C
- change of temperature air/air: -25°C/+25°C
- low air pressure: 30 kPa
- change of air pressure: 6 kPa/min.

(2) Mechanical condition

Transportation shall be done in such a way that the boxes are not deformed and forces are not directly passed on to the inner packaging.

1-2. Do not apply excessive vibration, shock, or pressure to the capacitor.

(1) When excessive mechanical shock or pressure is applied to a capacitor, chipping or cracking may occur in the ceramic body of the capacitor.

(2) When the sharp edge of an air driver, a soldering iron, tweezers, a chassis, etc. impacts strongly on the surface of the capacitor, the capacitor may crack and short-circuit.

1-3. Do not use a capacitor to which excessive shock was applied by dropping, etc.

A capacitor dropped accidentally during processing may be damaged.

#### 2. Characteristics Evaluation in the Actual System

1. Evaluate the capacitor in the actual system, to confirm that there is no problem with the performance and specification values in a finished product before using.

2. Since a voltage dependency and temperature dependency exists in the capacitance of high dielectric type ceramic capacitors, the capacitance may change depending on the operating conditions in the actual system. Therefore, be sure to evaluate the various characteristics, such as the leakage current and noise absorptivity, which will affect the capacitance value of the capacitor.

3. In addition, voltages exceeding the predetermined surge may be applied to the capacitor by the inductance in the actual system. Evaluate the surge resistance in the actual system as required.

GCH Series NFM Series

GRM Series GJM Series

GMD Series GMA Series

GQM Series GR3 Series

GRJ Series LLA Series

LLL Series LLM Series

LLR Series KR3 Series

KRM Series GCH Series

Notice

NFM Series GCH Series

LLR Series LLM Series

KRM Series KR3 Series

LLL Series LLA Series

GRJ Series GQM Series

GR3 Series GMD Series

GRM Series GJM Series

Notice

NFM

## **Caution/Notice/Soldering and Mounting**

### **Caution**

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### **Soldering and Mounting**

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2. Solder Paste Printing and Adhesive Application ..... 182
3. Standard Soldering Conditions ..... 183
4. Cleaning ..... 184

## ⚠ Caution

### Rating

Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.

### Soldering and Mounting

#### 1. Self-heating

Please provide special attention when mounting chip EMIFIL® NFM□□P/K series in close proximity to other products that radiate heat.

The heat generated by other products may deteriorate the insulation resistance and cause excessive heat in this component.

GCH Series

NFM Series

KRM Series

KR3 Series

LLM Series

LLR Series

LLL Series

LLA Series

GRJ Series

GR3 Series

GQM Series

GMD Series

GMA Series

GJM Series

GRM Series

GRJ Series

GR3 Series

GRM Series

GRJ Series

GR3 Series

GRM Series

GRJ Series

GR3 Series

## Notice

### Storage and Operating Conditions

#### <Operating Environment>

Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

Do not use products in the environment close to the organic solvent.

#### <Storage and Handling Requirements>

##### 1. Storage Period

Should be used within 12 months.

Solderability should be checked if this period is exceeded.

##### 2. Storage Conditions

(1) Storage temperature: -10 to +40°C

Relative humidity: 15 to 85%

Avoid sudden changes in temperature and humidity.

(2) Do not store products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

### Notice (Soldering and Mounting)

#### 1. Cleaning

Failure and degradation of a product are caused by the cleaning method. When you clean in conditions that are not in mounting information, please contact Murata engineering.

#### 2. Soldering

Reliability decreases with improper soldering methods. Please solder by the standard soldering conditions shown in mounting information.

#### 3. Points of Attention about NFM Pattern Forms

The loaded stresses are different to a chip depend on PCB materials and structures.

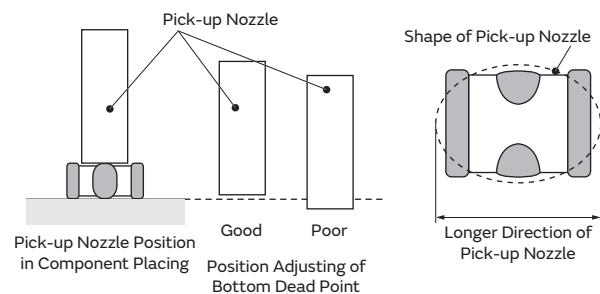
When the chip will be mounted on the metal PCB contained alumina material, PCB heat expansion/contraction will be a cause of chip cracks because the coefficients of thermal expressions are different between metal PCB and the chip itself.

In case of mounting 0402 or smaller size of NFM on single-layered glass epoxy board, chip cracks will be also occurred because of the same reason.

#### 4. Component Mounting: 0402 size or smaller of NFM

If low bottom dead point of the pick-up nozzle is too low, chip cracks will be occurred because an extra power will be added to the chip during mounting. Therefore, the bottom dead point of pick-up nozzle must be set on/over the upper

surface of the PCB. Adjusting is required when the bottom dead point will be set by correcting board warp. It is recommended that using the larger pick-up nozzle than chip length for avoiding what force impact will be centered to the middle point of components. Before assembling, please confirm its mounting accuracy under the best condition.



#### 5. Other

Noise suppression levels resulting from Murata's EMI suppression filters EMIFIL® may vary, depending on the circuits and ICs used, type of noise, mounting pattern, mounting location, and other operating conditions. Be sure to check and confirm in advance the noise suppression effect of each filter, in actual circuits, etc. before applying the filter in a commercial-purpose equipment design.

### Handling

#### 1. Resin Coating

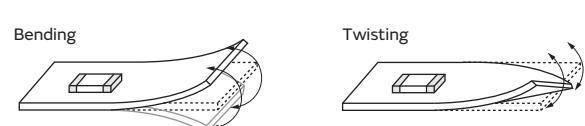
Using resin for coating/molding products may affect the products performance.

So please pay careful attention in selecting resin.

Prior to use, please make the reliability evaluation with the product mounted in your application set.

#### 2. Handling of a Substrate

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting to the substrate when cropping the substrate, inserting and removing a connector from the substrate or tightening screw to the substrate. Excessive mechanical stress may cause cracking in the Product.



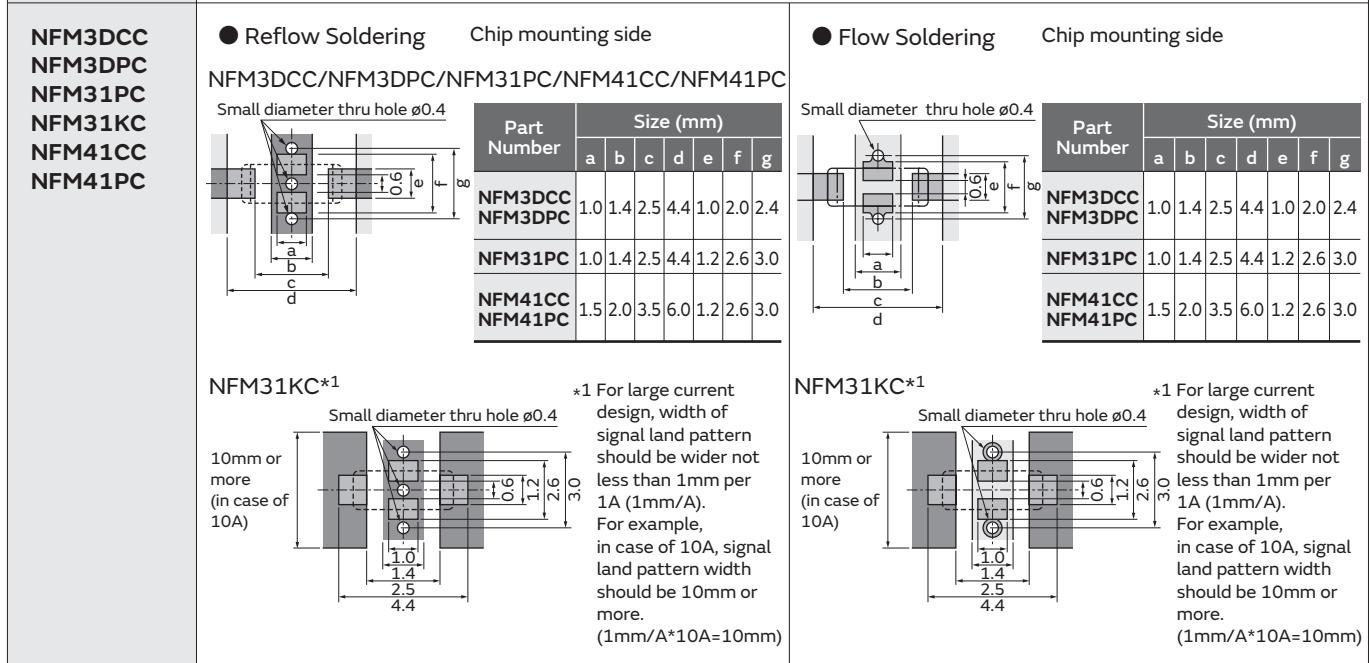
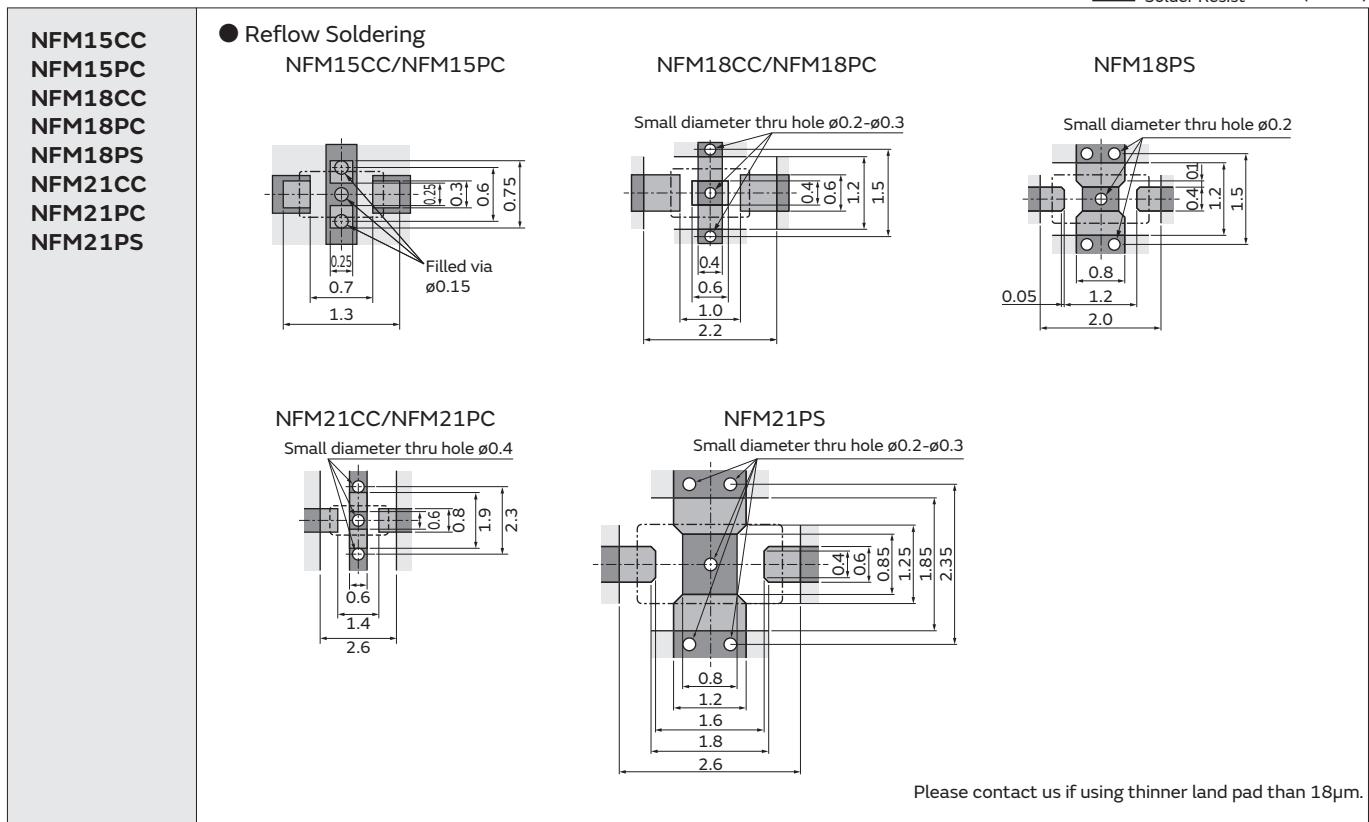
## Soldering and Mounting

### 1. Standard Land Pattern Dimensions

NFM series suppress noise by conducting the high-frequency noise element to ground. Therefore, to obtain maximum performance from these filters, the ground pattern should be made as large as possible during the PCB design stage. As shown below, one side of the PCB is used for chip mounting, and the other is used for grounding.

Small diameter feedthrough holes are then used to connect the grounds on each side of the PCB. This reduces the high-frequency impedance of the grounding and maximizes the filter's performance.

(in mm)



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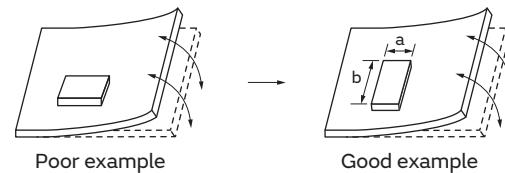
## Soldering and Mounting

Continued from the preceding page. ↗

### ● PCB Warping

PCB should be designed so that products are not subjected to the mechanical stress caused by warping the board.

Products should be located in the sideways direction (Length:  $a < b$ ) to the mechanical stress.



### 2. Solder Paste Printing and Adhesive Application

When reflow soldering the chip EMI suppression filter, the printing must be conducted in accordance with the following cream solder printing conditions.

If too much solder is applied, the chip will be prone to damage by mechanical and thermal stress from the PCB and may crack.

Standard land dimensions should be used for resist and copper foil patterns.

When flow soldering the EMI suppression filter, apply the adhesive in accordance with the following conditions. If too much adhesive is applied, then it may overflow into the land or termination areas and yield poor solderability. In contrast, if insufficient adhesive is applied, or if the adhesive is not sufficiently hardened, then the chip may become detached during flow soldering process.

Series	Solder Paste Printing	Adhesive Application
<b>NFM15CC</b>	● Guideline of solder paste thickness: 100-150μm: NFM15/18/21/3D/31 100-200μm: NFM41	
<b>NFM15PC</b>	NFM15CC/15PC	NFM3D/31/41 Series Apply 0.1mg for NFM41C/41 and 0.06mg for NFM3D/NFM31 of bonding agent at each chip. Do not cover electrodes.
<b>NFM18CC</b>		
<b>NFM18PC</b>		
<b>NFM18PS</b>		
<b>NFM21CC</b>		
<b>NFM21PC</b>		
<b>NFM21PS</b>		
<b>NFM3DCC</b>		
<b>NFM3DPC</b>		
<b>NFM31PC</b>		
<b>NFM31KC</b>		
<b>NFM41CC</b>		
<b>NFM41PC</b>		
(in mm)		

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## Soldering and Mounting

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### 3. Standard Soldering Conditions

#### (1) Soldering Methods

Use flow and reflow soldering methods only.

Use standard soldering conditions when soldering chip EMI suppression filters.

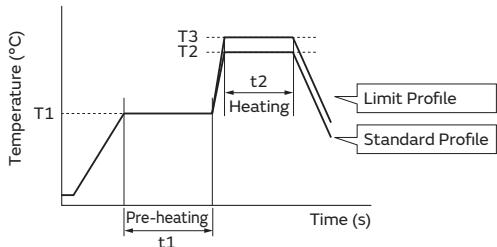
In cases where several different parts are soldered, each having different soldering conditions, use those conditions requiring the least heat and minimum time.

**Solder:** Use Sn-3.0Ag-0.5Cu solder. Use of Sn-Zn based solder will deteriorate performance of products.

If using NFM series with Sn-Zn based solder, please contact Murata in advance.

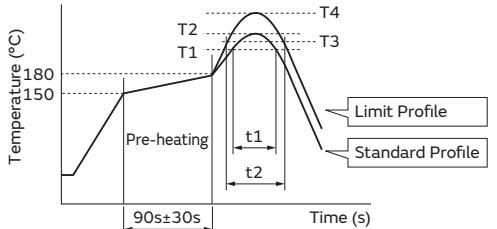
#### (2) Soldering Profile

##### ● Flow Soldering Profile (Sn-3.0Ag-0.5Cu Solder)



Series	Pre-heating		Standard Profile		Cycle of Flow	Limit Profile		Cycle of Flow	
			Heating			Temp. (T3)	Time. (t2)	Temp. (T3)	
	Temp. (T1)	Time. (t1)	Temp. (T2)	Time. (t2)					
NFM3D/31/41	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.	

##### ● Reflow Soldering Profile (Sn-3.0Ag-0.5Cu Solder)



Series	Standard Profile				Limit Profile			
	Heating		Peak Temperature (T2)	Cycle of Reflow	Heating		Peak Temperature (T4)	Cycle of Reflow
	Temp. (T1)	Time. (t1)			Temp. (T3)	Time. (t2)		
NFM	220°C min.	30 to 60s	245±3°C	2 times max.	230°C min.	60s max.	260°C/10s	2 times max.

#### (3) Reworking with Solder Iron

The following conditions must be strictly followed when using a soldering iron.

Pre-heating: 150°C 60s min.

Soldering iron power output / Tip diameter:

30W max. / Ø3mm max.\*<sup>1</sup>

\*<sup>1</sup> NFM15: 30W max. / Ø2mm max.

Temperature of soldering iron tip / Soldering time / Times:

350°C max. / 3-4s / 2 times\*<sup>2</sup>

\*<sup>2</sup> NFM15: 340°C max. / 3-4s / 1 time

Do not allow the tip of the soldering iron to directly contact the chip.

For additional methods of reworking with a soldering iron, please contact Murata engineering.

Continued on the following page. ↳

## Soldering and Mounting

Continued from the preceding page. ↴

### 4. Cleaning

Following conditions should be observed when cleaning chip EMI filter.

(1) Cleaning Temperature: 60°C max. (40°C max. for alcohol type cleaner)

(2) Ultrasonic

Output: 20W/liter max.

Duration: 5 minutes max.

Frequency: 28 to 40kHz

(3) Cleaning Agent

The following list of cleaning agents have been tested on the individual components. Evaluation of final assembly should be completed prior to production.

(a) Alcohol cleaning agent

Isopropyl alcohol (IPA)

(b) Aqueous cleaning agent

Pine Alpha ST-100S

(4) Ensure that flux residue is completely removed.

Component should be thoroughly dried after aqueous agent has been removed with deionized water.

# Design Support Tool "SimSurfing"

<http://www.murata.com/simsurfing/>

This is the latest tool to get the electrical characteristics for Capacitors, Inductors, and EMI Suppression Filters, and to simulate Thermistors' behavior !

The screenshot shows the main interface of the SimSurfing software. At the top, there's a navigation bar with links for "Monolithic Ceramic Capacitors", "EMI Suppression Filters", "Power Inductors", "RF Inductors", "NTC Thermistors", "PTC Thermistors (MOSISTOR®)", and "Medium Voltage Capacitors". Below the navigation bar are sections for "Characteristics viewer", "Components performance simulator", "Selection tool", and "Search". The "Characteristics viewer" section includes a "Monolithic Ceramic Capacitors" image and a list of search parameters like "Search Function", "Search Type", "Search Term", and "Search Result". The "Components performance simulator" section has buttons for "NTC Thermistors" and "PTC Thermistors (MOSISTOR®)". The "Selection tool" section has a button for "Medium Voltage Capacitors". The "Search" section has a "Search" button. At the bottom left are links for "Outline", "License Agreement", and "Download version".

**Characteristics viewer**  
You can easily search and download the following data for Monolithic Ceramic Capacitors, Polymer Capacitors, EMI Suppression Filters (Three-terminal Capacitors, Ferrite Beads) and Power/RF Inductors.

**Components performance simulator**  
You can search by the simulation on simple circuits for Thermistors.

**Selection tool**  
You can select Medium voltage Capacitors and Power Inductors according to conditions of use.  
\* Medium voltage: Rated Voltage 250V and over

**Search tool**  
You can search the Murata timing device (CERALOCK® and crystal units) that is most suitable for your IC and access information about the recommended circuit constant setting.

If you register as a "my Murata" user (<https://my.murata.com/en/web/mymurata/>), you can use Enhanced SimSurfing.

## ■ Usage example of "Monolithic Ceramic Capacitors"

### 1 Select the products

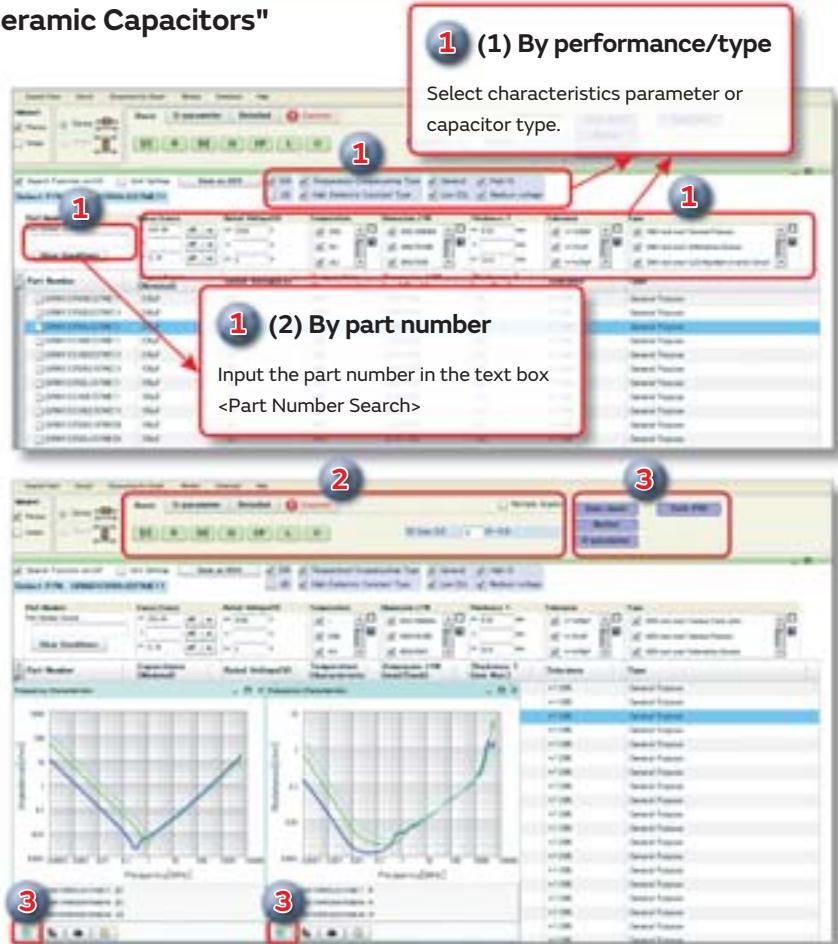
- (1) By performance/type
- (2) By part number

### 2 Show graph

Click each button on each tab of [Basic], [S-parameter] and [Detailed].

### 3 Data download

- Click each purple button in this area.
- Click "CSV output" button.



\* Images are as of October 2015. Be assured that this software will be updated frequently.

<http://www.murata.com/simsurfing/>

# Capacitor Website Introduction



Search for Capacitors

Global

Murata capacitors can be searched

1 Search by part number

2 Search by specifications

3 Search by features

4 Search in the lineups

5 Cross reference

## 1 Search by part number

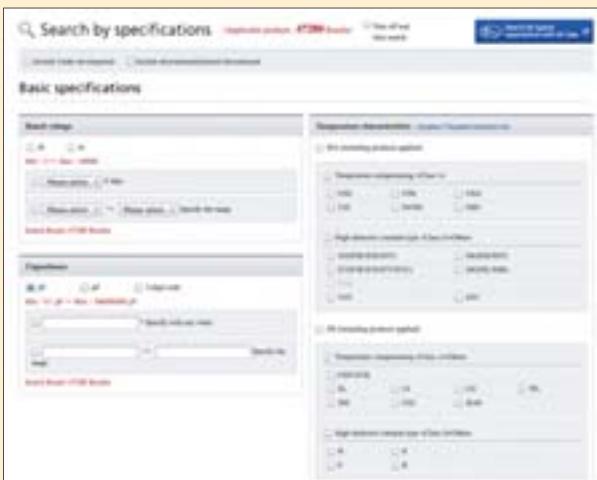
<http://psearch.murata.com/capacitor/partnumber/>



The applicable capacitors can be searched by alphanumeric characters. Although the alternative symbol "#" is used for the package specification code, you can also enter the full package specification code to search the part number including the package specification code.

## 2 Search by specifications

<http://psearch.murata.com/capacitor/spec/>



Capacitors can be searched by various specifications, such as the capacitance, rated voltage, and temperature characteristics.

### Basic specifications

Applicable products can be searched by any value and specified range.

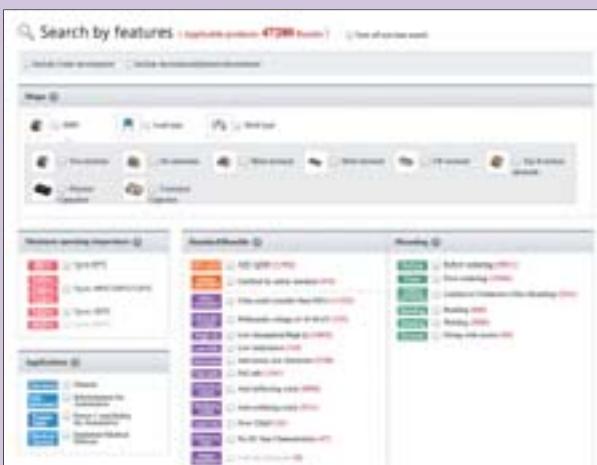
To support the entry, the minimum and maximum values of the product applicable to the conditions selected in the other items will be displayed.

### Add detailed specifications

Setting the conditions particular to the SMD, mold and lead, enables you to search the product with a more detailed specification.

## 3 Search by features

<http://psearch.murata.com/capacitor/feature/>



The applicable capacitors can be searched by the Shape, Maximum operating temperature, Applications, Benefits, and Mounting.

Select the conditions of the following items to search for a product.

"Shape"

"Maximum operating temperature"

"Applications"

"Benefits"

"Mounting"

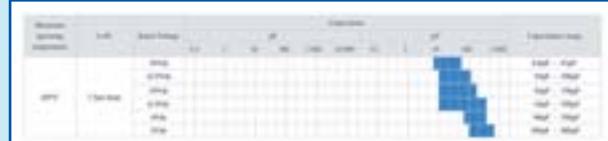
## 4 Search in the lineups

<http://psearch.murata.com/capacitor/lineup/>

Capacitors applicable to the conditions can be searched from the lineup of each series.

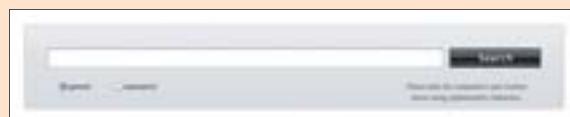
The features and applications of the series can also be checked in the Series page.

Capacitance chart in Series page



## 5 Cross reference

<http://cross-reference.murata.com/capacitor/crossreference/index.cfm>



The Murata part number applicable to the assumed specification can be searched by the competitor's part number of the chip monolithic ceramic capacitors.

## [Search result]

NEW

- It is possible to characteristic comparison.

The number of cases applicable to the current search conditions is always displayed in real time.

Click each search condition button to display the menu. The search results will change in real time with the selected conditions.

Clicking the "Current search conditions" opens a menu, and the current narrowed down conditions can be checked.

The results can be sorted by clicking the ▲ button of the search results items.

Clicking the product name opens the details page, and more detailed information can be acquired.

Detailed specifications sheet can be downloaded without opening the details page.

The icons clearly indicate the status and the features of the product.

# Global Locations

For details please visit [www.murata.com](http://www.murata.com)



## ⚠ Note

### 1 Export Control

For customers outside Japan:

No Murata products should be used or sold, through any channels, for use in the design, development, production, utilization, maintenance or operation of, or otherwise contribution to (1) any weapons (Weapons of Mass Destruction [nuclear, chemical or biological weapons or missiles] or conventional weapons) or (2) goods or systems specially designed or intended for military end-use or utilization by military end-users.

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**2** Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.

- ①** Aircraft equipment
- ②** Aerospace equipment
- ③** Undersea equipment
- ④** Power plant equipment
- ⑤** Medical equipment
- ⑥** Transportation equipment (vehicles, trains, ships, etc.)
- ⑦** Traffic signal equipment
- ⑧** Disaster prevention / crime prevention equipment
- ⑨** Data-processing equipment
- ⑩** Application of similar complexity and/or reliability requirements to the applications listed above

**3** Product specifications in this catalog are as of August 2016. They are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering. If there are any questions, please contact our sales representatives or product engineers.

**4** Please read rating and **⚠ CAUTION** (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.

**5** This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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