请务必在使用敝司产品之前阅读。

/ 注意

- ■本产品目录所记载的内容为2016年10月之内容。因改良等原因,可能会不经预告而变更记载内容,所以请务必在使用前先确认最新的产品信息。未按照本产品目录所记载的内容或交货规格说明书使用敝司产品的,即便其致使使用设备发生损害、瑕疵等时,敝司也不承担任何责任,敬请悉知。
- 就规格相关的详细内容、敝司备有交货规格说明书、详情请向敝司咨询。
- 使用敝司产品时、请务必事先安装到设备之后、在实际使用的环境下进行评估和确认。
- ■本产品目录所中记载的产品可使用于一般电子设备 [音像设备、办公自动化设备、家电产品、办公设备、信息/通讯设备 (手机、电脑等)]。因此,若考虑将本产品目录所记载的产品使用于可能会直接危及生命或身体的设备 [运输用设备 (汽车驱动控制设备、火车控制设备、船舶控制设备等)、交通信号设备、防灾设备、医疗用器械、高公共性信息通信设备 (电话交换机以及电话、无线、广播电视等基站)]等时,请务必事先向敝司咨询。

另外,请勿将敝司产品使用于对安全性和可靠性要求较高的设备(航天设备、航空设备、原子能控制设备、海底设备、军事设备等)。

且即便属于一般电子设备,使用于对安全性和可靠性要求较高的设备、电路上时,敝司建议进行充分的安全评估, 并根据需要,在设计时追加保护电路等。

未经敝司的事先书面同意,把本产品目录中记载的产品使用于前述需要向敝司咨询的设备或敝司禁止使用的设备,从而给客户或第三方造成的损害的,敝司不承担任何责任,敬请悉知。

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- ■除非书面合同中另有规定,敝司产品的保证范围仅限于交付的敝司产品单品,并且就敝司产品的故障或瑕疵所导致的损害,敝司不承担任何责任,敬请悉知。
- ■本产品目录所记载的内容适用于从敝司营业所、销售子公司、销售代理店(即"正规销售渠道")购买的敝司产品,并不适用于从上述以外的渠道购买的敝司产品,敬请悉知。

■出口相关注意事项

本产品目录所记载的部分产品在出口时须事先确认《外汇和对外贸易法》以及美国出口管理的相关法规,并办理相关手续。如有不明之处,请向敝司咨询。



波峰焊

回流焊

■型号标示法

 JMK316
 ABJ106
 BJ106
 ML-T
 A=室格

 ①23
 56
 89
 101
 102

代码	额定电压 [VDC]
Р	2.5
Α	4
J	6.3
L	10
Е	16
Т	25
G	35
U	50
Н	100
Q	250
S	630

②系列名称

⊕ 2/2 2 H 10.		
代码	系列名称	
М	多层电容器	
٧	高频用多层电容器	
W	LW 逆转型多层电容器	
	代码 M V	

③端接类型

代码	端接类型
K	电镀
S	Cu 内部电极

4)外型尺寸

L×W [mm]	EIA (inch)
0.25 × 0.125	008004
0.4 × 0.2	01005
0.6 × 0.3	0201
1.0 × 0.5	0402
0.52 × 1.0 💥	0204
1.6 × 0.8	0603
0.8 × 1.6 ※	0306
2.0 × 1.25	0805
1.25 × 2.0 ※	0508
3.2 × 1.6	1206
3.2 × 2.5	1210
4.5 × 3.2	1812
	0.25 × 0.125 0.4 × 0.2 0.6 × 0.3 1.0 × 0.5 0.52 × 1.0 % 1.6 × 0.8 0.8 × 1.6 % 2.0 × 1.25 1.25 × 2.0 % 3.2 × 1.6 3.2 × 2.5

注: ※LW 逆转型 (□WK)

⑤产品尺寸公差

所有规格	标准		
000	1707	标准	标准
063	0.6±0.05	0.3±0.05	0.3±0.05
105	1.0±0.10	0.5±0.10	0.5±0.10
107	1.6+0.15/-0.05	0.8+0.15/-0.05	0.8+0.15/-0.05
			0.45±0.05
212	2.0+0.15/-0.05	1.25+0.15/-0.05	0.85±0.10
			1.25+0.15/-0.05
316	3.2±0.20	1.6±0.20	0.85±0.10
			1.6±0.20
325	3.2±0.30	2.5±0.30	2.5±0.30
063	0.6±0.09	0.3 ± 0.09	0.3 ± 0.09
105	1.0+0.15/-0.05	0.5 + 0.15 / -0.05	0.5 + 0.15 / -0.05
107	1.6+0.20/-0	0.8+0.20/-0	0.45±0.05
			0.8+0.20/-0
212	2.0+0.20/-0	1.25+0.20/-0	0.45±0.05
			0.85±0.10
			1.25+0.20/-0
316	3.2±0.30	1.6±0.30	1.6±0.30
105	1.0+0.20/-0	0.5+0.20/-0	0.5+0.20/-0
	107 212 316 325 063 105 107 212	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

注: P.6 标准产品尺寸

△= 空格

⑥温度特性

■高介电常数【超低失真多层陶瓷电容器 除外】

代码	适用	标准	温度范围 [℃]	基准温度 [℃]	静电容量变化率	静电容量允许偏差	允许偏差代码
	JIS	В	-25~+ 85	20	±10%	±10%	K
BJ	010	ם	20.4 1 00	20	±10%	±20%	М
БО	EIA	X5R	−55~+ 85	25	±15%	±10%	K
					±15%	±20%	М
В7	EIA	X7R	−55~+125	25	±15%	±10%	K
						±20%	М
C6	EIA X6S	Vec	-55~+105	25	±22%	±10%	K
		-55~+105	25	± 22 %	±20%	М	
C7	EIA)	X7S	−55~+125	25	±22%	±10%	K
						±20%	М
LD(※)	EIA X	IA X5R −55~+ 85	55 1 05	0.5		±10%	K
			25	±15%	±20%	М	

注: ※LD 低失真大容量多层陶瓷电容器

△= 空格

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■温度补偿用

代码	适用	标准	温度范围 [℃]	基准温度 [℃]	静电容量变化率	静电容量允许偏差	允许偏差代码			
						±0.05pF	Α			
						±0.1pF	В			
CG	EIA	C0G	-55 ~ +125	25	0 ± 30 ppm/ $^{\circ}$ C	±0.25pF	С			
						±0.5pF	D			
						±5%	J			
	JIS	UJ	−55∼+125	20	20	20	20		±0.25pF	С
UJ	013	00				−750±120ppm/°C	±0.5pF	D		
	EIA	U2J		25		±5%	J			
UK	JIS	UK	-55 ~ +125	20	−750±250ppm/°C	±0.25pF	С			
UK	EIA	U2K	−55~+125	25	—/30±230ppm/ C	±0.23pF	C			
SL	JIS	SL	-55~+125	20	+350~-1000ppm/°C	±5%	J			

⑥系列名称

·超低失真多层陶瓷电容器

代码	系列名称		
SD	标准品		

· 中高耐压多层陶瓷电容器

代码	系列名称
SD	标准品

⑦静电容量

代码 (例)	静电容量
0R5	0.5pF
010	1pF
100	10pF
101	100pF
102	1,000pF
103	10,000pF
104	0.1 μ F
105	1.0 <i>μ</i> F
106	10 μ F
107	100 μ F

注: R=小数点

⑧静电容量允许偏差

代码	静电容量允许偏差
Α	±0.05pF
В	±0.1pF
С	±0.25pF
D	±0.5pF
F	±1pF
G	±2%
J	±5%
K	±10%
М	±20%
Z	+80/-20%

9产品厚度

O . HHI . 10-4	
代码	产品厚度 [mm]
K	0.125
Н	0.13
E	0.18
С	0.2
D	0.2
Р	0.3
Т	0.3
K	0.45 (107 型以上)
V	0.5
W	0.5
Α	0.8
D	0.85 (212 型以上)
F	1.15
G	1.25
L	1.6
N	1.9
Υ	2.0 max
М	2.5
-	<u> </u>

⑩个别规格

代码	个别规格
_	标准

11包装

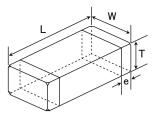
代码	包装规格								
F	φ178mm 卷盘带装 (2mm 间距)								
Т	φ178mm 卷盘带装 (4mm 间距)								
Р	φ 178mm 卷盘带装 (4mm 间距, 1000 个/卷盘) 325 规格 (厚度代码M)								
R	φ178mm 卷盘带装 (2mm 间距) 105 规格 (厚度代码E,H)								
W									
	め 178mm 压纹带 (1mm 间距) 021/042 规格专用								

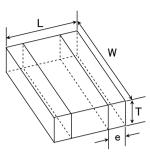
φ178mm 压纹带 (1mm 间距) 021/042 规格专用

12管理记号

代码	管理记号
Δ	标准

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※ LW逆转型

Time (FIA)		标准	i产品尺寸[mm]				
Type (EIA)	L	W	Т	*1	е		
☐MK021 (008004)	0.25±0.013	0.125±0.013	0.125±0.013	K	0.0675±0.0275		
□MK042(01005)	0.4±0.02	0.2±0.02	0.2±0.02	C D	0.1 ± 0.03		
□VS042(01005)	0.4±0.02	0.2±0.02	0.2 ± 0.02	С	0.1±0.03		
□MK063(0201)	0.6±0.03	0.3±0.03	0.3±0.03	P T	0.15±0.05		
			0.13 ± 0.02	Н			
			0.18 ± 0.02	Е			
□MK105(0402)	1.0±0.05	0.5 ± 0.05	0.2 ± 0.02	С	0.25 ± 0.10		
			0.3 ± 0.03	Р			
			0.5 ± 0.05	٧			
□VK105(0402)	1.0±0.05	0.5±0.05	0.5±0.05	W	0.25±0.10		
□WK105(0204)※	0.52 ± 0.05	1.0±0.05	0.3 ± 0.05	Р	0.18±0.08		
□MK107(0603)	1.6±0.10	0.8±0.10	0.45 ± 0.05	K	0.35±0.25		
	1.0 ± 0.10	0.0 ± 0.10	0.8 ± 0.10	Α	0.33 ± 0.23		
□WK107(0306)※	0.8 ± 0.10	1.6±0.10	0.5 ± 0.05	٧	0.25 ± 0.15		
			0.45 ± 0.05	K			
□MK212(0805)	2.0±0.10	1.25±0.10	0.85 ± 0.10	D	0.5 ± 0.25		
			1.25±0.10	G			
□WK212(0508)※	1.25±0.15	2.0±0.15	0.85 ± 0.10	D	0.3 ± 0.2		
			0.85 ± 0.10	D			
□MK316(1206)	3.2±0.15	1.6±0.15	1.15±0.10	F	0.5 + 0.35 / -0.25		
			1.6±0.20	L			
			0.85±0.10	D	_		
			1.15±0.10	F			
□MK325(1210)	3.2 ± 0.30	2.5±0.20	1.9±0.20	N	0.6±0.3		
			1.9+0.1/-0.2	Υ			
			2.5±0.20	М			
□MK432(1812)	4.5±0.40	3.2±0.30	2.5±0.20	М	0.9±0.6		

注: ※LW 逆转型、*1 产品厚度代码

■标准包装

规格	EIA (inch)	产品	厚度	标准数量		
观馆	EIA (inch)	[mm]	代码	纸带	压纹带	
021	008004	0.125	K	-	50000	
042	01005	0.2	С	_	40000	
042	01003	0.2	D		40000	
063	0201	0.3	Р	15000	_	
003	0201	0.3	T	13000		
		0.13	Н	_	20000	
		0.18	E	_	15000	
	0402	0.2	С	20000	_	
105	0402	0.3	Р	15000	_	
		0.5	V			
	0204 ※	0.5	W	10000	_	
	0204 ※	0.30	Р			
	0603	0.45	K	4000	_	
107		0.8	Α	4000		
	0306 ※	0.50	V	_	4000	
		0.45	K	4000	_	
212	0805	0.85	D	4000	_	
212		1.25	G	-	3000	
	0508 ※	0.85	D	4000	_	
		0.85	D	4000	_	
316	1206	1.15	F	_	3000	
		1.6	L	_	2000	
		0.85	D			
		1.15	F	_	2000	
0306 %	1.9	N		2000		
		2.0 max	Υ			
		2.5	М	_	1000	
432	1812	2.5	M	_	500	

注: ※LW 逆转型 (□WK)

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- ·本产品目录中记载的多层陶瓷电容器全部是RoHS对应品。
- ·请在型号的□中指定静电容量允许偏差代码。

- /±1/ *1 根据个别规格的约定,也会有采取温度特性为X7R/X7S的产品对应的情况。 *2 根据使用电路和机器,需要按照相应规格处理。请务必咨询正规销售渠道。 *3 关于尺寸规格,请参照型号标示法的④外形尺寸、⑤产品尺寸公差、⑨产品厚度、P.6标准产品尺寸。

多层陶瓷电容器 (高介电常数)

【温度特性 BJ: X5R】 厚度0.125mm (K)

型号1	型号2	额定电压 [V]	温度特性		静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
EMK021 BJ221 K-W				X5R	220 p	±10, ±20	10	150	0.125 ± 0.013	R
EMK021 BJ471 ☐K-W		16		X5R	470 p	±10, ±20	10	150	0.125 ± 0.013	R
EMK021 BJ102∏K-W				X5R	1000 p	±10, ±20	10	150	0.125 ± 0.013	R
JMK021 BJ222∏K-W				X5R	2200 p	±10, ±20	10	150	0.125±0.013	R
JMK021 BJ472∏K-W		6.3		X5R	4700 p	±10, ±20	10	150	0.125±0.013	R
JMK021 BJ103∏K-W				X5R	0.01 μ	±10, ±20	10	150	0.125±0.013	R
AMK021 BJ223MK-W		4		X5R	0.022 μ	±20	10	150	0.125±0.013	R

●042型

【温度特性 BJ: B/X5R】 厚度 0.2mm (C)

【温度特性 BJ : B/X5R】 厚	度 0.2mm (C)									
型 믁 1	型믁2	额定电压	温度	要特性	静电容量	静电容量允许偏差	tan δ	高温负载	厚度*³ [mm]	焊接方式 R: 回流焊
±3.	± 7-	[V]	/111/59	Z101II	[F]	[%]	[%]	额定电压 x %	1 -12 [11111]	W: 波峰焊
EMK042 BJ101 □C-W			В	X5R	100 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ151∏C-W			В	X5R	150 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ221□C-W			В	X5R	220 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ331 ☐C-W			В	X5R	330 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ471 ☐C-W			В	X5R	470 p	±10, ±20	5	200	0.2±0.02	R
EMK042 BJ681∏C-W			В	X5R	680 p	±10, ±20	5	200	0.2 ± 0.02	R
EMK042 BJ102□C-W		16	В	X5R	1000 p	±10, ±20	5	200	0.2 ± 0.02	R
EMK042 BJ152□C-W				X5R	1500 p	±10, ±20	10	150	0.2 ± 0.02	R
EMK042 BJ222□C-W				X5R	2200 p	±10, ±20	10	150	0.2 ± 0.02	R
EMK042 BJ332□C-W				X5R	3300 p	±10, ±20	10	150	0.2 ± 0.02	R
EMK042 BJ472□C-W				X5R	4700 p	±10, ±20	10	150	0.2±0.02	R
EMK042 BJ682∏C-W				X5R	6800 p	±10, ±20	10	150	0.2 ± 0.02	R
EMK042 BJ103∏C-W				X5R	0.01 μ	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ101[]C-W			В	X5R*1	100 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ151□C-W			В	X5R*1	150 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ221 ☐C-W			В	X5R*1	220 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ331 ☐C-W			В	X5R*1	330 р	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ471 ☐C-W			В	X5R*1	470 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ681∏C-W			В	X5R*1	680 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ102□C-W		10	В	X5R*1	1000 p	±10, ±20	5	200	0.2 ± 0.02	R
LMK042 BJ152□C-W				X5R	1500 p	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ222□C-W				X5R	2200 p	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ332∏C-W				X5R	3300 p	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ472∏C-W				X5R	4700 p	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ682∏C-W				X5R	6800 p	±10, ±20	10	150	0.2 ± 0.02	R
LMK042 BJ103∏C-W				X5R	0.01 μ	±10, ±20	10	150	0.2 ± 0.02	R
JMK042 BJ152□C-W			В	X5R*1	1500 p	±10, ±20	10	150	0.2 ± 0.02	R
JMK042 BJ222□C-W			В	X5R*1	2200 p	±10, ±20	10	150	0.2 ± 0.02	R
JMK042 BJ332∏C-W			В	X5R*1	3300 p	±10, ±20	10	150	0.2 ± 0.02	R
JMK042 BJ472∏C-W			В	X5R*1	4700 p	±10, ±20	10	150	0.2 ± 0.02	R
JMK042 BJ682[]C-W		6.3	В	X5R*1	6800 p	±10, ±20	10	150	0.2±0.02	R
JMK042 BJ103[]C-W			В	X5R*1	0.01 μ	±10, ±20	10	150	0.2±0.02	R
JMK042 BJ223[]C-W]		X5R	0.022 μ	±10, ±20	10	150	0.2±0.02	R
JMK042 BJ473[]C-W]		X5R	0.047 μ	±10, ±20	10	150	0.2±0.02	R
JMK042 BJ104∏C-W				X5R	0.1 μ	±10, ±20	10	150	0.2 ± 0.02	R
AMK042 BJ473∏C-W		4		X5R	0.047 μ	±10, ±20	10	150	0.2±0.02	R
AMK042 BJ104[C-W		4		X5R	0.1 μ	±10, ±20	10	150	0.2±0.02	R

【温度特性 B7: X7R】 厚度 0.2mm (C)

[温度特性 B7 : X7R 】 厚度 0.2mm (C)											
型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊		
EMK042 B7101[]C-W			X7R	100 p	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7151[]C-W			X7R	150 p	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7221[]C-W			X7R	220 p	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7331∏C-W		16	X7R	330 р	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7471[]C-W			X7R	470 p	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7681∏C-W			X7R	680 p	±10, ±20	5	200	0.2 ± 0.02	R		
EMK042 B7102[]C-W			X7R	1000 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7101 ☐ C-W			X7R	100 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7151[]C-W			X7R	150 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7221[]C-W			X7R	220 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7331∏C-W		10	X7R	330 р	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7471 C-W			X7R	470 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7681 C-W			X7R	680 p	±10, ±20	5	200	0.2 ± 0.02	R		
LMK042 B7102 C-W			X7R	1000 p	±10, ±20	5	200	0.2 ± 0.02	R		

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

●063型

【温度特性 BJ : B/X5R】 厚	度 0.3mm (P)									
		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	WE电压 [V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊
		[4]	_							W: 波峰焊
UMK063 BJ101 P-F			В	X5R*1	100 p	±10, ±20	3.5	200	0.3±0.03	R
UMK063 BJ151∏P-F			В	X5R*1	150 p	±10, ±20	3.5	200	0.3±0.03	R
UMK063 BJ221∏P-F			В	X5R*1	220 p	±10, ±20	3.5	200	0.3±0.03	R
UMK063 BJ331∏P-F			В	X5R*1	330 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 BJ471[P-F			В	X5R*1	470 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 BJ681∏P-F			В	X5R*1	680 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 BJ102[]P-F		50	В	X5R*1	1000 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 BJ152∏P-F			В	X5R	1500 p	±10, ±20	5	200	0.3 ± 0.03	R
UMK063 BJ222□P-F			В	X5R	2200 p	±10, ±20	5	200	0.3 ± 0.03	R
UMK063 BJ332□P-F			В	X5R	3300 р	±10, ±20	5	200	0.3 ± 0.03	R
UMK063 BJ472□P-F			В	X5R	4700 p	±10, ±20	5	200	0.3 ± 0.03	R
UMK063 BJ682∏P-F			В	X5R	6800 p	±10, ±20	5	200	0.3 ± 0.03	R
UMK063 BJ103∏P-F			В	X5R	0.01 μ	±10, ±20	5	200	0.3 ± 0.03	R
GMK063 BJ104[P-F		35		X5R	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
TMK063 BJ152□P-F			В	X5R	1500 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 BJ222□P-F			В	X5R	2200 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 BJ332□P-F			В	X5R	3300 р	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 BJ472□P-F			В	X5R	4700 p	±10, ±20	5	200	0.3±0.03	R
TMK063 BJ682∏P-F		25	В	X5R	6800 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 BJ103∏P-F			В	X5R	0.01 μ	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 BJ223□P-F			В	X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
TMK063ABJ104∏P-F				X5R	0.1 μ	±10, ±20	10	150	0.3±0.05	R
EMK063 BJ152 P-F			В	X5R*1	1500 p	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ222 P-F			В	X5R*1	2200 p	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ332[]P-F			В	X5R*1	3300 p	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ472∏P-F			В	X5R*1	4700 p	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ682[]P-F			В	X5R*1	6800 p	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ103 P-F			В	X5R*1	0.01 μ	±10, ±20	5	200	0.3±0.03	R
EMK063 BJ223 P-F		16	В	X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
EMK063 BJ333∏P-F				X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
EMK063 BJ473∏P-F				X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R
EMK063 BJ683[]P-F				X5R	0.047 μ	±10, ±20	10	150	0.3±0.03	R
EMK063 BJ104 P-F				X5R	0.008 μ	±10, ±20	10	150	0.3±0.03	R
EMK063 BJ224 P-F				X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R
LMK063 BJ223 P-F			В	X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
LMK063 BJ333 P-F				X5R	0.022 μ	±10, ±20 ±10, ±20	7.5	150	0.3±0.03	R
LMK063 BJ473 P-F		10		X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R
LMK063 BJ683 P-F		10		X5R	0.068 μ	±10, ±20	10	150	0.3±0.03	R
LMK063 BJ104 P-F	1	l	-	X5R	0.1 μ	±10, ±20	10	150	0.3±0.03	R
LMK063 BJ224[P-F				X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R
LMK063BBJ105MPLF				X5R	1 μ	±20	10	150	0.3±0.09	R
JMK063 BJ223 P-F		1	В	X5R	0.022 μ	±10, ±20	7.5	150	0.3±0.03	R
JMK063 BJ333∏P-F				X5R	0.033 μ	±10, ±20	7.5	150	0.3 ± 0.03	R
JMK063 BJ473∏P-F				X5R	0.047 μ	±10, ±20	7.5	150	0.3±0.03	R
JMK063 BJ683∏P-F				X5R	0.068 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063 BJ104[P-F		6.3		X5R	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063 BJ224∏P-F]		X5R	0.22 μ	±10, ±20	10	150	0.3±0.03	R
JMK063 BJ334MP-F]		X5R	0.33 μ	±20	10	150	0.3±0.03	R
JMK063 BJ474[]P-F				X5R	0.47 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063ABJ105∏P-F		<u> </u>		X5R	1 μ	±10, ±20	10	150	0.3±0.05	R
AMK063 BJ224∏P-F				X5R	0.22 μ	±10, ±20	10	150	0.3 ± 0.03	R
AMK063 BJ334MP-F		1 .		X5R	0.33 μ	±20	10	150	0.3 ± 0.03	R
AMK063 BJ474∏P-F		4		X5R	0.47 μ	±10, ±20	10	150	0.3±0.03	R
AMK063ABJ105∏P-F		1		X5R	1 μ	±10, ±20	10	150	0.3±0.05	R

【温度特性 C6: X6S】 厚度 0.3mm (P)

【温度特性 Co:XoS】 厚度		额定电压		静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	似[V]	温度特性	FF [F]	静电谷重允许调差 [%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
TMK063 C6104[]P-F		25	X6S	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
EMK063AC6104[]P-F		16	X6S	0.1 μ	±10, ±20	10	150	0.3 ± 0.05	R
LMK063 C6333[P-F			X6S	0.033 μ	±10, ±20	7.5	150	0.3 ± 0.03	R
LMK063 C6473[P-F			X6S	0.047 μ	±10, ±20	7.5	150	0.3 ± 0.03	R
LMK063 C6683[]P-F		10	X6S	0.068 μ	±10, ±20	10	150	0.3 ± 0.03	R
LMK063 C6104[]P-F			X6S	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
LMK063 C6224[]P-F			X6S	0.22 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063 C6223∏P-F			X6S	0.022 μ	±10, ±20	7.5	200	0.3 ± 0.03	R
JMK063 C6333∏P-F			X6S	0.033 μ	±10, ±20	7.5	150	0.3 ± 0.03	R
JMK063 C6473∏P-F			X6S	0.047 μ	±10, ±20	7.5	150	0.3 ± 0.03	R
JMK063 C6683∏P-F		6.3	X6S	0.068 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063 C6104∏P-F			X6S	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063 C6224∏P-F			X6S	0.22 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK063BC6105MP-F			X6S	1 μ	±20	10	150	0.3 ± 0.09	R
AMK063 C6474∏P-F		4	X6S	0.47 μ	±10, ±20	10	150	0.3 ± 0.03	R
AMK063AC6105∏P-F		4	X6S	1 μ	±10, ±20	10	150	0.3 ± 0.05	R

【温度特性 B7: X7R】 厚度 0.3mm (P)

型号1	型号2	额定电压 [V]	温度特	性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK063 B7101 P-F				X7R	100 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7151 P-F				X7R	150 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7221 P-F				X7R	220 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7331 ☐P-F		50		X7R	330 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7471 ☐P-F				X7R	470 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7681 ☐P-F				X7R	680 p	±10, ±20	3.5	200	0.3 ± 0.03	R
UMK063 B7102□P-F				X7R	1000 p	±10, ±20	3.5	200	0.3 ± 0.03	R

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型号1	型号2	额定电压 [V]	温度特	性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK063 B7152[]P-F				X7R	1500 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 B7222[]P-F				X7R	2200 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 B7332∏P-F		25		X7R	3300 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 B7472[]P-F		2.5		X7R	4700 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 B7682∏P-F				X7R	6800 p	±10, ±20	5	200	0.3 ± 0.03	R
TMK063 B7103[P-F				X7R	0.01 μ	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7152 P-F				X7R	1500 p	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7222 P-F				X7R	2200 p	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7332 P-F				X7R	3300 p	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7472∏P-F		16		X7R	4700 p	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7682∏P-F				X7R	6800 p	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7103 P-F				X7R	0.01 μ	±10, ±20	5	200	0.3 ± 0.03	R
EMK063 B7223□P-F				X7R	0.022 μ	±10, ±20	7.5	150	0.3 ± 0.03	R

●105型

【温度特性 BJ: B/X5R】 厚度 0.5mm (V)

【温度特性 BJ : B/X5R 】 原	<u>厚度 0.5mm (V)</u>									
型 号 1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK105 BJ221∏V-F			В	X5R*1	220 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ331 □V-F			В	X5R*1	330 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ471∏V-F			В	X5R*1	470 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ681∏V-F			В	X5R*1	680 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ102∏V-F			В	X5R*1	1000 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ152□V-F			В	X5R*1	1500 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ222 □V-F			В	X5R*1	2200 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ332 U−F		50	В	X5R*1	3300 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ472∏V-F		00	В	X5R*1	4700 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 BJ682 V-F			В	X5R*1	6800 p	±10, ±20	2.5	150	0.5±0.05	R
UMK105 BJ103 V-F			В	X5R*1	0.01 μ	±10, ±20	3.5	200	0.5±0.05	R
UMK105 BJ104∏V-F				X5R X5R	0.01 μ	±10, ±20	10	150	0.5±0.05	R
				X5R X5R	0.1 μ	±10, ±20	10	150	0.5±0.05	R
UMK105 BJ224 V-F				X5R X5R	0.22 μ	±10, ±20	10	150	0.5±0.05	R
UMK105ABJ474[]V-F										
UMK105CBJ105MV-F				X5R	1 μ	±20	10	150	0.5+0.20/-0	R
GMK105 BJ104[]V-F		35	В	X5R	0.1 μ	±10, ±20	5	150	0.5±0.05	R
GMK105ABJ105[]V-F				X5R	1 μ	±10, ±20	10	150	0.5±0.10	R
TMK105 BJ153 V-F			В	X5R*1	0.015 μ	±10, ±20	3.5	200	0.5±0.05	R
TMK105 BJ223[V-F			В	X5R*1	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R
TMK105 BJ333[V-F			В	X5R*1	0.033 μ	±10, ±20	3.5	150	0.5 ± 0.05	R
TMK105 BJ473□V-F			В	X5R*1	0.047 μ	±10, ±20	3.5	150	0.5 ± 0.05	R
TMK105 BJ104□V-F		25	В	X5R	0.1 μ	±10, ±20	5	150	0.5±0.05	R
TMK105 BJ224 U-F				X5R	0.22 μ	±10, ±20	10	200	0.5 ± 0.05	R
TMK105ABJ474[]V-F				X5R	0.47 μ	±10, ±20	10	200	0.5±0.10	R
TMK105 BJ105 U-F				X5R	1 μ	±10, ±20	10	150	0.5 ± 0.05	R
TMK105CBJ225[]V-F				X5R	2.2 μ	±10, ±20	10	150	0.5+0.20/-0	R
EMK105 BJ153 U-F			В	X5R*1	0.015 μ	±10, ±20	3.5	200	0.5±0.05	R
EMK105 BJ223 U-F			В	X5R*1	0.022μ	±10, ±20	3.5	200	0.5 ± 0.05	R
EMK105 BJ333 ŪV-F			В	X5R*1	0.033 μ	±10, ±20	3.5	200	0.5±0.05	R
EMK105 BJ473 U-F			В	X5R*1	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R
EMK105 BJ683∏V-F		10	В	X5R	0.068 μ	±10, ±20	5	200	0.5±0.05	R
EMK105 BJ104□V-F		16	В	X5R*1	0.1 μ	±10, ±20	5	150	0.5±0.05	R
EMK105 BJ224□V-F			В	X5R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
EMK105ABJ474∏V-F				X5R	0.47 μ	±10, ±20	10	150	0.5±0.10	R
EMK105 BJ105 □V-F				X5R	1 μ	±10, ±20	10	150	0.5±0.05	R
EMK105ABJ225∏V−F				X5R	2.2 μ	±10, ±20	10	150	0.5±0.10	R
LMK105 BJ104[]V-F			В	X5R	0.1 μ	±10, ±20	5	200	0.5±0.05	R
LMK105 BJ224[]V-F			В	X5R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
LMK105 BJ474∏V-F				X5R	0.47 µ	±10, ±20	10	150	0.5±0.05	R
LMK105 BJ105∏V-F		10		X5R	1 μ	±10, ±20	10	150	0.5±0.05	R
LMK105 BJ225[]V-F				X5R	2.2 μ	±10, ±20	10	150	0.5±0.05	R
LMK105BBJ475MVLF				X5R	4.7 µ	±20	10	150	0.5+0.15/-0.05	R
JMK105 BJ224 V-F			В	X5R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
JMK105 BJ474[]V-F	<u> </u>			X5R X5R	0.22 μ	±10, ±20	10	150	0.5±0.05	R
JMK105 BJ105∏V-F			-	X5R X5R	1 μ	±10, ±20	10	150	0.5±0.05	R
JMK105 BJ105 V-F	+	6.3	 	X5R X5R	2.2 μ	±10, ±20 ±10, ±20	10	150	0.5±0.05	R
JMK105 BJ225UV-F JMK105BBJ475MV-F	JMK105 BJ475MV-FD			X5R X5R	2.2 μ 4.7 μ	±10, ±20 ±20	10	150	0.5±0.05 0.5+0.15/-0.05	R
	OWINTOO DO4/OWIV-FD		 		•		10			
JMK105CBJ106MV-F	AMICIOE DIAZEMO		 	X5R	10 μ	±20		150	0.5+0.20/-0	R
AMK105ABJ475MV-F	AMK105 BJ475MV-F	4		X5R	4.7 μ	±20	10	150	0.5±0.10	R
AMK105CBJ106MV-F	1		l	X5R	10 μ	±20	10	150	0.5+0.20/-0	R

【温度特性 BJ: B/X5R】 厚度 0.3mm (P)

【温度特性 BJ:B/X5R】 厚	度 0.3mm (P)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK105 BJ104[P-F		50		X5R	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
TMK105 BJ103[P-F			В	X5R	0.01 μ	±10, ±20	5	150	0.3 ± 0.03	R
TMK105 BJ104□P-F		25		X5R	0.1 μ	±10, ±20	10	150	0.3 ± 0.03	R
TMK105 BJ224□P-F		23		X5R	0.22 μ	±10, ±20	10	150	0.3 ± 0.03	R
TMK105 BJ474□P-F				X5R	0.47 μ	±10, ±20	10	150	0.3 ± 0.03	R
EMK105 BJ474□P-F		16		X5R	0.47 μ	±10, ±20	10	150	0.3 ± 0.03	R
LMK105 BJ105∏PLF		10		X5R	1 μ	±10, ±20	10	150	0.3 ± 0.03	R
JMK105 BJ105∏P-F		6.3		X5R	1 μ	±10, ±20	10	150	0.3 ± 0.03	R
AMK105 BJ225MP-F		4		X5R	2.2 μ	±20	10	150	0.3 ± 0.03	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

١	【温度特性	BI · X	5R]	厚度 0	2mm	(C)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
LMK105 BJ104□C-F		10		X5R	0.1 μ	±10, ±20	10	150	0.2±0.02	R
JMK105 BJ224∏C-F				X5R	0.22 μ	±10, ±20	10	150	0.2±0.02	R
JMK105 BJ474∏C-F		6.3		X5R	0.47 μ	±10, ±20	10	150	0.2 ± 0.02	R
JMK105 BJ105MC-F				X5R	1 μ	±20	10	150	0.2 ± 0.02	R

【温度特性 BJ: X5R】 厚度0.18mm (E)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
LMK105 BJ104[E-R		10		X5R	0.1 μ	±10, ±20	10	150	0.18±0.02	R
JMK105 BJ224[E-R		6.3		X5R	0.22 μ	±10, ±20	10	150	0.18±0.02	R
JMK105 BJ474[]E-R		0.3		X5R	0.47 μ	±10, ±20	10	150	0.18±0.02	R
AMK105 BJ105ME-R		4		X5R	1 μ	±20	10	150	0.18±0.02	R

【温度特性 BJ: X5R】 厚度 0.13mm (H)

型号1	型号2	额定电压 [V]	温度特性	生	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
LMK105 BJ104MH-R		10	>	X5R	0.1 μ	±20	10	150	0.13±0.02	R
JMK105 BJ224MH-R		6.3	>	X5R	0.22 μ	±20	10	150	0.13±0.02	R
AMK105 BJ474MH-R		4	>	X5R	0.47 μ	±20	10	150	0.13±0.02	R

【温度特性 C6: X6S】 厚度 0.5mm (V)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
GMK105CC6105MV-F		35		X6S	1 μ	±20	10	150	0.5+0.20/-0	R
TMK105AC6105[]V-F		25		X6S	1 μ	±10, ±20	10	150	0.5 ± 0.10	R
EMK105 C6105[]V-F		16		X6S	1 μ	±10, ±20	10	150	0.5 ± 0.05	R
EMK105CC6225MV-F		10		X6S	2.2 μ	±20	10	150	0.5+0.20/-0	R
LMK105 C6105[]V-F		10		X6S	1 μ	±10, ±20	10	200	0.5±0.05	R
LMK105AC6225MV-F		10		X6S	2.2 μ	±20	10	150	0.5±0.10	R
JMK105 C6105∏V-F				X6S	1 μ	±10, ±20	10	150	0.5±0.05	R
JMK105 C6225MV-F		6.3		X6S	2.2 μ	±20	10	150	0.5±0.05	R
JMK105BC6475MV-F				X6S	4.7 μ	±20	10	150	0.5+0.15/-0.05	R
AMK105BC6475MV-F		4		X6S	4.7 μ	±20	10	150	0.5+0.15/-0.05	R

【温度特性 B7: X7R】 厚度 0.5mm (V)

【温度特性 B/:X/R】 厚度	(V)						高温负载		40+4-4-4
型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差	tan δ [%]		厚度* ³ [mm]	焊接方式 R: 回流焊
		[V]		[F]	[%]	[90]	额定电压 x %		W: 波峰焊
UMK105 B7221 □V-F			X7R	220 p	±10, ±20	2.5	200	0.5±0.05	R
UMK105 B7331 UV-F			X7R	330 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7471 □V-F			X7R	470 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7681 □V-F			X7R	680 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7102□V-F			X7R	1000 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7152 UV-F			X7R	1500 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7222 UV-F		50	X7R	2200 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7332 UV-F		30	X7R	3300 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7472 UV-F			X7R	4700 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7682 UV-F			X7R	6800 p	±10, ±20	2.5	200	0.5 ± 0.05	R
UMK105 B7103 U-F			X7R	0.01 μ	±10, ±20	3.5	200	0.5 ± 0.05	R
UMK105 B7223 U-FR			X7R	0.022 μ	±10, ±20	10	200	0.5 ± 0.05	R
UMK105 B7473 U-FR			X7R	0.047 μ	±10, ±20	10	200	0.5 ± 0.05	R
UMK105 B7104 UV-FR			X7R	0.1 μ	±10, ±20	10	150	0.5 ± 0.05	R
TMK105 B7152 V-F			X7R	1500 p	±10, ±20	2.5	200	0.5 ± 0.05	R
TMK105 B7222 U-F			X7R	2200 p	±10, ±20	2.5	200	0.5 ± 0.05	R
TMK105 B7332∏V-F			X7R	3300 р	±10, ±20	2.5	200	0.5 ± 0.05	R
TMK105 B7472□V-F			X7R	4700 p	±10, ±20	2.5	200	0.5 ± 0.05	R
TMK105 B7682∏V-F		25	X7R	6800 p	±10, ±20	2.5	200	0.5 ± 0.05	R
TMK105 B7103∏V-F		25	X7R	0.01 μ	±10, ±20	3.5	200	0.5 ± 0.05	R
TMK105 B7223 U-F			X7R	0.022 μ	±10, ±20	3.5	150	0.5 ± 0.05	R
TMK105 B7473∏V-F			X7R	0.047 μ	±10, ±20	3.5	150	0.5 ± 0.05	R
TMK105 B7104 U-FR			X7R	0.1 μ	±10, ±20	10	200	0.5±0.05	R
TMK105 B7224 U-FR			X7R	0.22 μ	±10, ±20	10	150	0.5±0.05	R
EMK105 B7223 V-F			X7R	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R
EMK105 B7473 U-F		16	X7R	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R
EMK105 B7104[]V-F		10	X7R	0.1 μ	±10, ±20	5	150	0.5±0.05	R
EMK105 B7224 V-FR			X7R	0.22 μ	±10, ±20	10	150	0.5±0.05	R
LMK105 B7223[]V-F			X7R	0.022 μ	±10, ±20	3.5	200	0.5±0.05	R
LMK105 B7473[V-F			X7R	0.047 μ	±10, ±20	3.5	200	0.5±0.05	R
LMK105 B7104[]V-F		10	X7R	0.1 μ	±10, ±20	5	150	0.5±0.05	R
LMK105 B7224[]V-FR			X7R	0.22 μ	±10, ±20	10	150	0.5±0.05	R
LMK105 B7474[]V-F			X7R	0.47 μ	±10, ±20	10	150	0.5±0.05	R
JMK105 B7224[]V-F		6.3	X7R	0.22 μ	±10, ±20	5	150	0.5±0.05	R
JMK105 B7474[]V-F		0.3	X7R	0.47 μ	±10, ±20	10	150	0.5±0.05	R

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● 107型

【温度特性 BJ: B/X5R】 厚度 0.8mm (A)

【温度特性 BJ:B/X5R 】 厚	·反 U.OIIIII (A)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	·厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK107ABJ474[]A-T	UMK107 BJ474∏A-TD			X5R	0.47 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
UMK107 BJ105∏A-T		50		X5R	1 μ	±10, ±20	10	150	0.8 ± 0.10	R
UMK107BBJ225[]A-T				X5R	2.2 μ	±10, ±20	10	150	0.8+0.20/-0	R
GMK107 BJ105[]A-T		35	В	X5R	1 μ	±10, ±20	5	150	0.8±0.10	R
TMK107 BJ224□A-T			В	X5R	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W
TMK107 BJ474□A-T			В	X5R	0.47 μ	±10, ±20	3.5	150	0.8±0.10	R
TMK107 BJ105∏A-T		25	В	X5R	1 μ	±10, ±20	5	150	0.8±0.10	R
TMK107ABJ225∏A-T	TMK107 BJ225□A-TD	23		X5R	2.2 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
TMK107BBJ475∏A-T				X5R	4.7 μ	±10, ±20	10	150	0.8+0.20/-0	R
TMK107BBJ106MA-T				X5R	10 μ	±20	10	150	0.8+0.20/-0	R
EMK107 BJ224 A-T			В	X5R*1	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W
EMK107 BJ474□A-T			В	X5R*1	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R
EMK107 BJ105∏A-T		16	В	X5R*1	1 μ	±10, ±20	5	150	0.8±0.10	R
EMK107 BJ225∏A-T		10	В	X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R
EMK107ABJ475∏A-T	EMK107 BJ475□A-TD			X5R	4.7 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
EMK107BBJ106MA-T				X5R	10 μ	±20	10	150	0.8+0.20/-0	R
LMK107 BJ224∏A-T			В	X5R*1	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W
LMK107 BJ474∏A-T			В	X5R*1	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R
LMK107 BJ105∏A-T			В	X5R*1	1 μ	±10, ±20	5	200	0.8±0.10	R
LMK107 BJ225∏A-T		10	В	X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R
LMK107 BJ475∏A-T				X5R	4.7 μ	±10, ±20	10	150	0.8±0.10	R
LMK107BBJ106∏ALT	LMK107 BJ106∏ALTD			X5R	10 μ	±10, ±20	10	150	0.8+0.20/-0	R
LMK107BBJ226MA-T				X5R	22 μ	±20	10	150	0.8+0.20/-0	R
JMK107 BJ225∏A-T			В	X5R	2.2 μ	±10, ±20	10	150	0.8±0.10	R
JMK107 BJ475[]A-T		6.3		X5R	4.7 μ	±10, ±20	10	150	0.8±0.10	R
JMK107ABJ106∏A-T	JMK107 BJ106∏A-T	0.3		X5R	10 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
JMK107BBJ226MA-T				X5R	22 μ	±20	10	150	0.8+0.20/-0	R
AMK107 BJ106MA-T		4		X5R	10 μ	±20	10	150	0.8±0.10	R
AMK107BBJ226MA-T	AMK107 BJ226MA-T	4		X5R	22 μ	±20	10	150	0.8+0.20/-0	R

【温度特性 BJ: B/X5R】 厚度 0.45mm (K)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK107 BJ105∏K-T		25		X5R	1 μ	±10, ±20	10	150	0.45 ± 0.05	R
EMK107 BJ105∏K-T		16		X5R	1 μ	±10, ±20	10	150	0.45 ± 0.05	R
EMK107BBJ225 K-T		10		X5R	2.2 μ	±10, ±20	10	150	0.45 ± 0.05	R
LMK107 BJ105[K-T			В	X5R	1 μ	±10, ±20	10	150	0.45 ± 0.05	R
LMK107 BJ225[K-T		10		X5R	2.2 μ	±10, ±20	10	150	0.45 ± 0.05	R
LMK107BBJ475MKLT	LMK107 BJ475MKLTD			X5R	4.7 μ	±20	10	150	0.45 ± 0.05	R
JMK107 BJ105∏K-T			В	X5R	1 μ	±10, ±20	10	150	0.45 ± 0.05	R
JMK107 BJ225∏K-T		6.3		X5R	2.2 μ	±10, ±20	10	150	0.45 ± 0.05	R
JMK107 BJ475MK-T		0.5		X5R	4.7 μ	±20	10	150	0.45 ± 0.05	R
JMK107BBJ106MK-T*2				X5R	10 μ	±20	10	150	0.45±0.05	R
AMK107BBJ106MK-T*2		4		X5R	10 μ	±20	10	150	0.45±0.05	R

【温度特性 C6: X6S】 厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK107BC6225[]A-T		25	X6S	2.2 μ	±10, ±20	10	150	0.8+0.20/-0	R
EMK107 C6105∏A-T			X6S	1 μ	±10, ±20	5	150	0.8±0.10	R
EMK107BC6225∏A-T		16	X6S	2.2 μ	±10, ±20	10	150	0.8+0.20/-0	R
EMK107BC6475∏A-T		10	X6S	4.7 μ	±10, ±20	10	150	0.8+0.20/-0	R
EMK107BC6106MA-T			X6S	10 μ	±20	10	150	0.8+0.20/-0	R
LMK107 C6105[]A-T			X6S	1 μ	±10, ±20	5	150	0.8±0.10	R
LMK107AC6475[]A-T		10	X6S	4.7 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
LMK107BC6106MA-T			X6S	10 μ	±20	10	150	0.8+0.20/-0	R
JMK107 C6105∏A-T			X6S	1 μ	±10, ±20	5	150	0.8±0.10	R
JMK107 C6475∏A-T		6.3	X6S	4.7 μ	±10, ±20	10	150	0.8±0.10	R
JMK107BC6106MA-T		0.5	X6S	10 μ	±20	10	150	0.8+0.20/-0	R
JMK107BC6226MA-T			X6S	22 μ	±20	10	150	0.8+0.20/-0	R
AMK107AC6106MA-T		4	X6S	10 μ	±20	10	150	0.8+0.15/-0.05	R
AMK107BC6226MA-T		4	X6S	22 μ	±20	10	150	0.8+0.20/-0	R

【温度特性 B7: X7R】 厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK107 B7224[]A-TR			X7R	0.22 μ	±10, ±20	10	150	0.8±0.10	R
UMK107 B7474[]A-TR		50	X7R	0.47 μ	±10, ±20	10	150	0.8±0.10	R
UMK107AB7105[]A-T			X7R	1 μ	±10, ±20	10	150	0.8+0.15/-0.05	R
TMK107 B7474[]A-TR		25	X7R	0.47 μ	±10, ±20	10	150	0.8±0.10	R
TMK107 B7105∏A-T		23	X7R	1 μ	±10, ±20	10	150	0.8±0.10	R
EMK107 B7224[]A-T			X7R	0.22 μ	±10, ±20	3.5	150	0.8±0.10	R/W
EMK107 B7474□A-T		16	X7R	0.47 μ	±10, ±20	3.5	150	0.8±0.10	R
EMK107 B7105∏A-T		10	X7R	1 μ	±10, ±20	5	150	0.8±0.10	R
EMK107BB7225∏A-T			X7R	2.2 μ	±10, ±20	10	150	0.8+0.20/-0	R
LMK107 B7224□A-T			X7R	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W
LMK107 B7474□A-T		10	X7R	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R
LMK107 B7105∏A-T		10	X7R	1 μ	±10, ±20	5	150	0.8±0.10	R
LMK107 B7225∏A-TR			X7R	2.2 μ	±10, ±20	10	150	0.8±0.10	R
JMK107 B7224□A-T			X7R	0.22 μ	±10, ±20	3.5	200	0.8±0.10	R/W
JMK107 B7474□A-T			X7R	0.47 μ	±10, ±20	3.5	200	0.8±0.10	R
JMK107 B7105∏A-T		6.3	X7R	1 μ	±10, ±20	5	150	0.8±0.10	R
JMK107 B7225∏A-TR			X7R	2.2 μ	±10, ±20	10	200	0.8±0.10	R
JMK107BB7475∏A-T			X7R	4.7 μ	±10, ±20	10	150	0.8+0.20/-0	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

●212型

Fig. children in				(-)
【温度特性 BJ	: B/X5R1	厚度 1	25mm	(G)

		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
UMK212 BJ104[]G-T			В	X5R*1	0.1 μ	±10, ±20	3.5	200	1.25±0.10	R/W
UMK212 BJ224 G-T			В	X5R*1	0.22 μ	±10, ±20	3.5	200	1.25±0.10	R/W
UMK212 BJ474[]G-T		50	В	X5R*1	0.47 μ	±10, ±20	3.5	150	1.25±0.10	R/W
UMK212 BJ105[]G-T		50	В	X5R	1 μ	±10, ±20	5	150	1.25±0.10	R/W
UMK212ABJ225[]G-T			В	X5R	2.2 μ	±10, ±20	10	150	1.25+0.15/-0.05	R
UMK212BBJ475[]G-T				X5R	4.7 μ	±10, ±20	10	150	1.25+0.20/-0	R
GMK212BBJ106∏G-T		35		X5R	10 μ	±10, ±20	10	150	1.25+0.20/-0	R
TMK212 BJ225[]G-T			В	X5R	2.2 μ	±10, ±20	5	150	1.25±0.10	R
TMK212ABJ475[]G-T	TMK212 BJ475∏G-T	25		X5R	4.7 μ	±10, ±20	10	150	1.25+0.15/-0.05	R
TMK212BBJ106MG-T		20		X5R	10 μ	±20	10	150	1.25+0.20/-0	R
TMK212BBJ226MG-TT				X5R	22 μ	±20	10	150	1.25+0.20/-0	R
EMK212 BJ225[]G-T			В	X5R*1	2.2 μ	±10, ±20	5	200	1.25±0.10	R
EMK212ABJ475[]G-T	EMK212 BJ475∏G-T	16	В	X5R*1	4.7 μ	±10, ±20	5	150	1.25+0.15/-0.05	R
EMK212ABJ106 G-T	EMK212 BJ106∏G-T	10		X5R	10 μ	±10, ±20	10	150	1.25+0.15/-0.05	R
EMK212BBJ226MG-T				X5R	22 μ	±20	10	150	1.25+0.20/-0	R
LMK212 BJ225 G-T			В	X5R*1	2.2 μ	±10, ±20	5	200	1.25±0.10	R
LMK212ABJ475[]G-T	LMK212 BJ475[]G-T	10	В	X5R*1	4.7 μ	±10, ±20	5	200	1.25+0.15/-0.05	R
LMK212ABJ106[]G-T	LMK212 BJ106[]G-T	10		X5R	10 μ	±10, ±20	10	200	1.25+0.15/-0.05	R
LMK212BBJ226MG-T	LMK212 BJ226MG-T			X5R	22 μ	±20	10	150	1.25+0.20/-0	R
JMK212ABJ475[]G-T	JMK212 BJ475∏G-T		В	X5R	4.7 μ	±10, ±20	5	200	1.25+0.15/-0.05	R
JMK212ABJ106[]G-T	JMK212 BJ106[]G-T	6.3		X5R*1	10 μ	±10, ±20	10	200	1.25+0.15/-0.05	R
JMK212ABJ226MG-T	JMK212 BJ226MG-T	0.3		X5R	22 μ	±20	10	150	1.25+0.15/-0.05	R
JMK212BBJ476MG-T	JMK212 BJ476MG-T			X5R	47 μ	±20	10	150	1.25+0.20/-0	R
PMK212BBJ107MG-T		2.5		X5R	100 μ	±20	10	150	1.25+0.20/-0	R

【温度特性 BJ: B/X5R】厚度 0.85mm (D)

【 血反付注 DJ . D/ A JR 】 序)	支 0.65mm (D)				,					
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK212ABJ105[]D-T	UMK212 BJ105[]D-TD	50		X5R	1 μ	±10, ±20	10	150	0.85 ± 0.10	R
UMK212BBJ225[]D-T		30		X5R	2.2 μ	±10, ±20	10	150	0.85 ± 0.10	R
GMK212BBJ475∏D-T		35		X5R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
TMK212 BJ474[]D-T			В	X5R	0.47 μ	±10, ±20	3.5	200	0.85 ± 0.10	R
TMK212 BJ105[]D-T			В	X5R	1 μ	±10, ±20	5	200	0.85 ± 0.10	R
TMK212ABJ225 D-T	TMK212 BJ225□D-T	25	В	X5R	2.2 μ	±10, ±20	5	150	0.85±0.10	R
TMK212BBJ475 D-T	TMK212 BJ475□D-TD			X5R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
TMK212BBJ106 D-T				X5R	10 μ	±10, ±20	10	150	0.85 ± 0.10	R
EMK212 BJ105[]D-T			В	X5R*1	1 μ	±10, ±20	5	200	0.85 ± 0.10	R
EMK212ABJ225 D-T	EMK212 BJ225□D-T	16	В	X5R*1	2.2 μ	±10, ±20	5	150	0.85 ± 0.10	R
EMK212 BJ475[]D-T		10	В	X5R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
EMK212ABJ106 D-T	EMK212 BJ106□D-TD			X5R	10 μ	±10, ±20	10	150	0.85 ± 0.10	R
LMK212 BJ105[]D-T			В	X5R*1	1 μ	±10, ±20	3.5	200	0.85 ± 0.10	R
LMK212 BJ225 D-T		10	В	X5R*1	2.2 μ	±10, ±20	5	200	0.85 ± 0.10	R
LMK212ABJ106[]D-T	LMK212 BJ106□D-T	10		X5R	10 μ	±10, ±20	10	150	0.85 ± 0.10	R
LMK212BBJ226MD-T				X5R	22 μ	±20	10	150	0.85±0.10	R
JMK212ABJ106[]D-T	JMK212 BJ106∏D-T	6.3		X5R	10 μ	±10, ±20	10	200	0.85±0.10	R
JMK212ABJ226MD-T	JMK212 BJ226MD-T	0.3		X5R	22 μ	±20	10	150	0.85±0.10	R
AMK212BBJ476MD-T		4		X5R	47 μ	±20	10	150	0.85±0.10	R

【温度特性 BJ: X5R】厚度 0.45mm (K)

型号1	型号2	额定电压 [V]	温度物	持性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK212BBJ225□K-T		25		X5R	2.2 μ	±10, ±20	10	150	0.45±0.05	R
EMK212BBJ475∏K-T		16		X5R	4.7 μ	±10, ±20	10	150	0.45 ± 0.05	R
LMK212ABJ475∏K-T	LMK212 BJ475∏K-T	10		X5R	4.7 μ	±10, ±20	10	150	0.45 ± 0.05	R
JMK212ABJ475∏K-T	JMK212 BJ475∏K-T	6.3		X5R	4.7 μ	±10, ±20	10	150	0.45 ± 0.05	R
JMK212ABJ106MK-T *2	JMK212 BJ106MK-T	0.3		X5R	10 μ	±20	10	150	0.45±0.05	R

【温度特性 C6: X6S】厚度 1.25mm (G)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
LMK212BC6226MG-T		10	X6	22 μ	±20	10	150	1.25+0.20/-0	R
JMK212BC6226MG-T		6.3	X6	22 μ	±20	10	150	1.25+0.20/-0	R
AMK212AC6226MG-T		4	X6	22 μ	±20	10	150	1.25+0.15/-0.05	R
AMK212BC6476MG-T		4	X6	47 μ	±20	10	150	1.25+0.20/-0	R

【温度特性 C6: X6S】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度特	持性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
LMK212AC6106[]D-T		10		X6S	10 μ	±10, ±20	10	150	0.85 ± 0.10	R
AMK212BC6226MD-T		4		X6S	22 μ	±20	10	150	0.85±0.10	R

【温度特性 B7: X7R】厚度 1.25mm (G)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK212 B7104[]G-T			X7R	0.1 μ	±10, ±20	3.5	200	1.25±0.10	R/W
UMK212 B7224[]G-T			X7R	0.22 μ	±10, ±20	3.5	150	1.25±0.10	R/W
UMK212 B7474[]G-T		50	X7R	0.47 μ	±10, ±20	3.5	150	1.25±0.10	R/W
UMK212 B7105[]G-T			X7R	1 μ	±10, ±20	10	150	1.25±0.10	R/W
UMK212BB7225[]G-T			X7R	2.2 μ	±10, ±20	10	150	1.25+0.20/-0	R
GMK212 B7105[]G-T		35	X7R	1 μ	±10, ±20	3.5	150	1.25±0.10	R/W
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[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

型号1	型号2	额定电压 [V]	温度	持性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK212 B7105∏G-T				X7R	1 μ	±10, ±20	3.5	150	1.25±0.10	R
TMK212 B7225 G-TR		25		X7R	2.2 μ	±10, ±20	10	150	1.25±0.10	R
TMK212AB7475∏G-T	TMK212 B7475∏G-T			X7R	4.7 μ	±10, ±20	10	150	1.25+0.15/-0.05	R
EMK212 B7105∏G-T				X7R	1 μ	±10, ±20	3.5	200	1.25±0.10	R/W
EMK212 B7225 G-T		16		X7R	2.2 μ	±10, ±20	10	150	1.25±0.10	R
EMK212 B7475∏G-T		10		X7R	4.7 μ	±10, ±20	10	150	1.25±0.10	R
EMK212BB7106MG-T				X7R	10 μ	±20	10	150	1.25+0.20/-0	R
LMK212 B7105 G-T				X7R	1 μ	±10, ±20	3.5	200	1.25±0.10	R/W
LMK212 B7225 G-T		10		X7R	2.2 μ	±10, ±20	5	200	1.25±0.10	R
LMK212 B7475∏G-T		10		X7R	4.7 μ	±10, ±20	10	150	1.25±0.10	R
LMK212AB7106 G-T	LMK212 B7106[]G-TD			X7R	10 μ	±10, ±20	10	150	1.25+0.15/-0.05	R
JMK212AB7106∏G-T	JMK212 B7106∏G-T	6.3		X7R	10 μ	±10, ±20	10	150	1.25+0.15/-0.05	R

【温度特性 B7: X7R】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK212AB7104[]D-T			X7	'R 0.1 μ	±10, ±20	10	150	0.85 ± 0.10	R
UMK212AB7224[]D-T		50	X7	'R 0.22 μ	±10, ±20	10	150	0.85 ± 0.10	R
UMK212AB7474[]D-T		30	X7	'R 0.47 μ	±10, ±20	10	150	0.85 ± 0.10	R
UMK212AB7105[]D-T			X7	'R 1 μ	±10, ±20	10	150	0.85 ± 0.10	R
TMK212AB7225 D-TR		25	X7	'R 2.2 μ	±10, ±20	10	150	0.85 ± 0.10	R
EMK212 B7474[]D-T			X7	'R 0.47 μ	±10, ±20	3.5	200	0.85 ± 0.10	R/W
EMK212 B7105[]D-T		16	X7	'R 1 μ	±10, ±20	5	200	0.85 ± 0.10	R
EMK212AB7225[]D-T	EMK212 B7225 D-T	10	X7	'R 2.2 μ	±10, ±20	5	150	0.85 ± 0.10	R
EMK212BB7475[]D-T			X7	'R 4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
LMK212 B7105□D-T			X7	'R 1 μ	±10, ±20	3.5	200	0.85 ± 0.10	R
LMK212AB7225[]D-T	LMK212 B7225□D-T	10	X7	'R 2.2 μ	±10, ±20	5	200	0.85±0.10	R
LMK212AB7475 D-TR	LMK212 B7475[]D-TR		X7	'R 4.7 μ	±10, ±20	10	150	0.85±0.10	R

●316型

【温度特性 BJ: B/X5R】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK316 BJ105□L-T			В	X5R*1	1 μ	±10, ±20	3.5	200	1.6±0.20	R
UMK316 BJ225□L-T		50		X5R	2.2 μ	±10, ±20	10	150	1.6±0.20	R
UMK316 BJ475□L-T		30		X5R	4.7 μ	±10, ±20	10	150	1.6±0.20	R
UMK316BBJ106□L-T				X5R	10 μ	±10, ±20	10	150	1.6±0.30	R
TMK316 BJ225[]L-T			В	X5R*1	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R
TMK316 BJ475[]L-T		25	В	X5R	4.7 μ	±10, ±20	5	150	1.6±0.20	R
TMK316 BJ106[]L-T		23		X5R*1	10 μ	±10, ±20	5	150	1.6±0.20	R
TMK316BBJ226ML-T				X5R	22 μ	±20	10	150	1.6±0.30	R
EMK316 BJ225[]L-T			В	X5R*1	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
EMK316 BJ475[]L-T		16	В	X5R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
EMK316 BJ106[]L-T		10	В	X5R*1	10 μ	±10, ±20	5	150	1.6±0.20	R
EMK316ABJ226□L-T	EMK316 BJ226□L-T		В	X5R	22 μ	±10, ±20	10	150	1.6±0.20	R
LMK316 BJ106[]L-T			В	X5R*1	10 μ	±10, ±20	5	200	1.6±0.20	R
LMK316ABJ226[]L-T	LMK316 BJ226□L-T	10	В	X5R	22 μ	±10, ±20	10	150	1.6±0.20	R
LMK316ABJ476ML-T	LMK316 BJ476ML-T			X5R	47 μ	±20	10	150	1.6±0.20	R
JMK316 BJ106□L-T			В	X5R*1	10 μ	±10, ±20	5	200	1.6±0.20	R
JMK316ABJ226∏L-T	JMK316 BJ226∏L-T	6.3	В	X5R	22 μ	±10, ±20	10	200	1.6±0.20	R
JMK316ABJ476ML-T	JMK316 BJ476ML-T	0.3		X5R	47 μ	±20	10	200	1.6±0.20	R
JMK316ABJ107ML-T	JMK316 BJ107ML-T			X5R	100 μ	±20	10	150	1.6±0.20	R
AMK316ABJ107ML-T	AMK316 BJ107ML-T	4		X5R	100 μ	±20	10	150	1.6±0.20	R
AMK316BBJ157ML-T		4		X5R	150 μ	±20	10	150	1.6±0.30	R
PMK316BBJ227ML-T		2.5		X5R	220 μ	±20	10	150	1.6 ± 0.30	R

【温度特性 BJ: B/X5R】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK316 BJ105□D-T			В	X5R	1 μ	±10, ±20	3.5	150	0.85±0.10	R
UMK316 BJ225 D-T		50	В	X5R	2.2 μ	±10, ±20	3.5	150	0.85±0.10	R
UMK316ABJ475□D-T	UMK316 BJ475∏D-T			X5R	4.7 μ	±10, ±20	10	150	0.85±0.10	R
TMK316 BJ105[]D-T			В	X5R	1 μ	±10, ±20	3.5	200	0.85±0.10	R
TMK316 BJ225[]D-T		25	В	X5R	2.2 μ	±10, ±20	3.5	150	0.85±0.10	R
TMK316 BJ475□D-T		25		X5R	4.7 μ	±10, ±20	5	150	0.85±0.10	R
TMK316ABJ106□D-T	TMK316 BJ106□D-TD			X5R	10 μ	±10, ±20	10	150	0.85 ± 0.10	R
EMK316 BJ225□D-T			В	X5R	2.2 μ	±10, ±20	3.5	200	0.85±0.10	R
EMK316 BJ475□D-T		16	В	X5R	4.7 μ	±10, ±20	5	200	0.85±0.10	R
EMK316 BJ106□D-T		10		X5R	10 μ	±10, ±20	10	150	0.85±0.10	R
EMK316ABJ226MD-T	EMK316 BJ226MD-T			X5R	22 μ	±20	10	150	0.85±0.10	R
LMK316 BJ475[]D-T			В	X5R	4.7 μ	±10, ±20	5	200	0.85 ± 0.10	R
LMK316 BJ106[]D-T		10	В	X5R	10 μ	±10, ±20	10	200	0.85 ± 0.10	R
LMK316ABJ226MD-T	LMK316 BJ226MD-T			X5R	22 μ	±20	10	150	0.85±0.10	R
JMK316 BJ106∏D-T			В	X5R	10 μ	±10, ±20	10	200	0.85±0.10	R
JMK316ABJ226MD-T	JMK316 BJ226MD-T	6.3		X5R	22 μ	±20	10	150	0.85±0.10	R
JMK316ABJ476MD-T	JMK316 BJ476MD-T			X5R	47 μ	±20	10	150	0.85±0.10	R

【温度特性 C6: X6S】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
EMK316BC6226ML-T		16		X6S	22 μ	±20	10	150	1.6±0.30	R
JMK316AC6476ML-T		6.3		X6S	47 μ	±20	10	150	1.6±0.20	R
AMK316AC6476ML-T		4		X6S	47 μ	±20	10	200	1.6±0.20	R
AMK316AC6107ML-T		4		X6S	100 μ	±20	10	150	1.6±0.20	R

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【温度特性 C7: X7S】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度物	持性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
AMK316AC7476ML-T		4		X7S	47 μ	±20	10	150	1.6±0.20	R

【温度特性 B7: X7R 】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK316 B7224□L-T			X7R	0.22 μ	±10, ±20	2.5	200	1.6±0.20	R/W
UMK316 B7474□L-T			X7R	0.47 μ	±10, ±20	3.5	200	1.6±0.20	R/W
UMK316 B7105□L-T		50	X7R	1 μ	±10, ±20	3.5	200	1.6±0.20	R
UMK316 B7225□L-T			X7R	2.2 μ	±10, ±20	10	150	1.6±0.20	R
UMK316AB7475□L-T	UMK316 B7475[]L-T		X7R	4.7 μ	±10, ±20	10	150	1.6±0.20	R
GMK316AB7106[]L-TR		35	X7R	10 μ	±10, ±20	10	150	1.6±0.20	R
TMK316 B7105□L-T			X7R	1 μ	±10, ±20	3.5	200	1.6±0.20	R/W
TMK316 B7225□L-T		25	X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R
TMK316AB7475□L-T	TMK316 B7475□L-T	23	X7R	4.7 μ	±10, ±20	10	200	1.6±0.20	R
TMK316AB7106□L-T	TMK316 B7106□L-TD		X7R	10 μ	±10, ±20	10	150	1.6±0.20	R
EMK316 B7225□L-T			X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
EMK316 B7475□L-T		16	X7R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
EMK316AB7106□L-T	EMK316 B7106□L-TD	10	X7R	10 μ	±10, ±20	10	200	1.6±0.20	R
EMK316BB7226ML-T			X7R	22 μ	±20	10	150	1.6±0.30	R
LMK316 B7225□L-T			X7R	2.2 μ	±10, ±20	3.5	200	1.6±0.20	R/W
LMK316 B7475□L-T		10	X7R	4.7 μ	±10, ±20	5	200	1.6±0.20	R
LMK316AB7106 L-T	LMK316 B7106□L-TD	10	X7R	10 μ	±10, ±20	10	200	1.6±0.20	R
LMK316AB7226□L-TR	LMK316 B7226□L-TD		X7R	22 μ	±10, ±20	10	150	1.6±0.20	R
JMK316 B7106[]L-T		6.3	X7R	10 μ	±10, ±20	5	200	1.6±0.20	R

【温度特性 B7: X7R 】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK316 B7225∏D-T		50	X7R	2.2 μ	±10, ±20	10	150	0.85 ± 0.10	R
TMK316AB7475□D-T		25	X7R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
LMK316AB7106MD-T		10	X7R	10 μ	±20	10	150	0.85±0.10	R

●325型

【温度特性 BJ: B/X5R】厚度 2.5mm (M)

【温度特性 BJ:B/X5R】厚	支 2.5mm (M)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK325 BJ475[M-P		50		X5R	4.7 μ	±10, ±20	5	150	2.5 ± 0.20	R
UMK325 BJ106 M-P		30		X5R	10 μ	±10, ±20	5	150	2.5 ± 0.20	R
GMK325 BJ226MM-P		35		X5R	22 μ	±20	10	150	2.5 ± 0.20	R
TMK325 BJ106[]M-P			В	X5R*1	10 μ	±10, ±20	3.5	150	2.5±0.20	R
TMK325 BJ226[]M-P		25		X5R	22 μ	±10, ±20	5	150	2.5±0.20	R
TMK325ABJ476MM-P				X5R	47 μ	±20	10	150	2.5 ± 0.30	R
EMK325 BJ226[M-P			В	X5R	22 μ	±10, ±20	5	150	2.5±0.20	R
EMK325 BJ476MM-P		16		X5R	47 μ	±20	10	150	2.5 ± 0.20	R
EMK325ABJ107MM-P				X5R	100 μ	±20	10	150	2.5 ± 0.30	R
LMK325 BJ226∏M-P			В	X5R	22 μ	±10, ±20	5	200	2.5 ± 0.20	R
LMK325 BJ476MM-P		10		X5R	47 μ	±20	10	150	2.5 ± 0.20	R
LMK325ABJ107MM-P	LMK325 BJ107MM-P			X5R	100 μ	±20	10	150	2.5 ± 0.30	R
JMK325 BJ476MM-P				X5R	47 μ	±20	10	150	2.5 ± 0.20	R
JMK325ABJ107MM-P	JMK325 BJ107MM-P			X5R	100 μ	±20	10	150	2.5 ± 0.30	R
JMK325ABJ157MM-P		6.3		X5R	150 μ	±20	10	150	2.5±0.30	R
JMK325ABJ227MM-P				X5R	220 μ	±20	10	150	2.5±0.30	R
JMK325ABJ337MM-P				X5R	330 μ	±20	10	150	2.5±0.30	R
AMK325ABJ157MM-P				X5R	150 μ	±20	10	150	2.5±0.30	R
AMK325ABJ227MM-P		4		X5R	220 μ	±20	10	150	2.5±0.30	R
AMK325ABJ337MM-P				X5R	330 μ	±20	10	150	2.5±0.30	R

【温度特性 BJ: B/X5R】厚度 1.9mm (Y,N)

【温度特性 BJ:B/X5R】厚度	(1.311111 (1,11)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK325 BJ475∏N-T		50		X5R	4.7 μ	±10, ±20	10	150	1.9±0.20	R
GMK325 BJ225□N-T			В	X5R	2.2 μ	±10, ±20	3.5	200	1.9 ± 0.20	R
GMK325 BJ475□N-T		35		X5R	4.7 μ	±10, ±20	10	150	1.9 ± 0.20	R
GMK325 BJ106□N-T			В	X5R	10 μ	±10, ±20	5	150	1.9 ± 0.20	R
TMK325 BJ335MN-T			В	X5R*1	3.3 μ	±20	3.5	200	1.9 ± 0.20	R
TMK325 BJ475□N-T		25	В	X5R*1	4.7 μ	±10, ±20	3.5	200	1.9 ± 0.20	R
TMK325 BJ106□N-T			В	X5R	10 μ	±10, ±20	5	200	1.9 ± 0.20	R
EMK325 BJ475∏N-T			В	X5R*1	4.7 μ	±10, ±20	3.5	200	1.9 ± 0.20	R
EMK325 BJ106∏N-T		16	В	X5R	10 μ	±10, ±20	3.5	200	1.9±0.20	R
EMK325 BJ476MY-T				X5R	47 μ	±20	10	150	1.9+0.1/-0.2	R
LMK325 BJ226MY-T		10	В	X5R	22 μ	±20	5	150	1.9+0.1/-0.2	R
LMK325 BJ106□N-T		10	В	X5R	10 μ	±10, ±20	3.5	200	1.9±0.20	R
JMK325 BJ226MY-T			В	X5R	22 μ	±20	5	200	1.9+0.1/-0.2	R
JMK325 BJ107MY-T		6.3		X5R	100 μ	±20	10	150	1.9+0.1/-0.2	R
JMK325 BJ476MN-T				X5R	47 μ	±20	10	150	1.9±0.20	R

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【温度特性 BJ : B/X5R 】厚度	₹0.85mm (D)									
		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度	特性	[F]	[%]	[%]	额定电压 x %	「厚度*³ [mm]	R: 回流焊 W: 波峰焊
TMK325 BJ106[]D-T		25	В	X5R	10 μ	±10, ±20	5	150	0.85±0.10	R
EMK325 BJ106∏D-T		16	В	X5R	10 μ	±10, ±20	5	150	0.85 ± 0.10	R
EMK325 BJ226MD-T		10	В	X5R	22 μ	±20	10	150	0.85 ± 0.10	R
LMK325 BJ335∏D-T			В	X5R	3.3 μ	±10, ±20	3.5	200	0.85 ± 0.10	R
LMK325 BJ475[]D-T		10	В	X5R	4.7 μ	±10, ±20	5	200	0.85 ± 0.10	R
LMK325 BJ106∏D-T			В	X5R	10 μ	±10, ±20	5	150	0.85±0.10	R

【温度特性 C6: X6S】厚度 2.5mm (M)

		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
<u> </u>	型号2	[V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
EMK325AC6476MM-P		16		X6S	47 μ	±20	10	150	2.5±0.30	R
LMK325AC6107MM-P		10		X6S	100 μ	±20	10	150	2.5±0.30	R
JMK325AC6107MM-P		6.3		X6S	100 μ	±20	10	150	2.5±0.30	R
AMK325AC6157MM-P				X6S	150 μ	±20	10	150	2.5±0.30	R
AMK325AC6227MM-P		4		X6S	220 μ	±20	10	150	2.5±0.30	R
AMK325AC6337MM-P				X6S	330 μ	±20	10	150	2.5±0.30	R
PMK325AC6337MM-P		2.5		X6S	330 μ	±20	10	150	2.5±0.30	R

【温度特性 C7: X7S】厚度 2.5mm (M)

		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度物	持性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
JMK325AC7107MM-P		6.3		X7S	100 μ	±20	10	150	2.5±0.30	R

【温度特性 B7: X7R】厚度 2.5mm (M)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK325 B7475[]M-P		50	X7R	4.7 μ	±10, ±20	5	150	2.5±0.20	R
UMK325AB7106[]M-P		30	X7R	10 μ	±10, ±20	10	150	2.5 ± 0.30	R
TMK325AB7106[M-P		25	X7R	10 μ	±10, ±20	10	150	2.5 ± 0.30	R
TMK325 B7226 M-PR		25	X7R	22 μ	±10, ±20	10	150	2.5 ± 0.20	R
EMK325 B7226 M-PR		16	X7R	22 μ	±10, ±20	10	150	2.5 ± 0.20	R
LMK325 B7476 M−PR		10	X7R	47 μ	±10, ±20	10	150	2.5 ± 0.20	R
JMK325 B7476□M-PR		6.3	X7R	47 μ	±10, ±20	10	200	2.5 ± 0.20	R

【温度特性 B7: X7R】厚度 1.9mm (N)

L 温及特压 DI. AIN J 序及	1.5111111 (14)								
型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK325 B7475[]N-TR		50	X7R	4.7 μ	±10, ±20	10	150	1.9±0.20	R
TMK325 B7335□N-T			X7R	3.3 μ	±10, ±20	3.5	200	1.9±0.20	R
TMK325 B7475□N-T		25	X7R	4.7 μ	±10, ±20	3.5	150	1.9±0.20	R
TMK325 B7106□N-TR			X7R	10 μ	±10, ±20	10	150	1.9±0.20	R
EMK325 B7475□N-T		16	X7R	4.7 μ	±10, ±20	3.5	200	1.9±0.20	R
EMK325 B7106 N-T		10	X7R	10 μ	±10, ±20	3.5	150	1.9±0.20	R
LMK325 B7106 N-T		10	X7R	10 μ	±10, ±20	3.5	200	1.9±0.20	R

●432型

【温度特性 BJ: X5R】厚度 2.5mm (M)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
AMK432 BJ477MM-T		4		X5R	470 μ	±20	10	150	2.5±0.20	R

【温度特性 C6: X6S】厚度 2.5mm (M)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
PMK432 C6477MM-T		2.5		X6S	470 μ	±20	10	150	2.5 ± 0.20	R

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多层陶瓷电容器 (温度补偿用)

● 021型

【温度特性 CG: CG/C0G】 厚度 0.125mm (K)

TMK021 CG0R2□K-W				[F]	静电容量允许偏差	(at 1MHz) (min)	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
		CG	C0G	0.2 p	±0.1pF, ±0.25pF	404	200	0.125±0.013	R
TMK021 CG0R3□K-W TMK021 CG0R4□K-W		CG	C0G C0G	0.3 p 0.4 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	406 408	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG0R5∏K-W	 1	CG	COG	0.4 p	±0.1pF, ±0.25pF	410	200	0.125±0.013	R
TMK021 CG0R6∏K-W		CG	C0G	0.6 p	±0.1pF, ±0.25pF	412	200	0.125±0.013	R
TMK021 CG0R7 K-W		CG	COG	0.7 p	±0.1pF, ±0.25pF	414	200	0.125±0.013	R
TMK021 CGR75□K-W TMK021 CG0R8□K-W		CG	C0G C0G	0.75 p 0.8 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	415 416	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG0R9[K-W	 1	CG	COG	0.9 p	±0.1pF, ±0.25pF	418	200	0.125±0.013	R
TMK021 CG010∏K-W		CG	C0G	1 p	±0.1pF, ±0.25pF	420	200	0.125±0.013	R
TMK021 CG1R1 K-W		CG	COG	1.1 p	±0.1pF, ±0.25pF	422	200	0.125±0.013	R
TMK021 CG1R2□K-W TMK021 CG1R3□K-W		CG	C0G C0G	1.2 p 1.3 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	424 426	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG1R4[K-W		CG	COG	1.4 p	±0.1pF, ±0.25pF	428	200	0.125±0.013	R
TMK021 CG1R5∏K-W		CG	C0G	1.5 p	±0.1pF, ±0.25pF	430	200	0.125±0.013	R
TMK021 CG1R6□K-W TMK021 CG1R7□K-W		CG	C0G	1.6 p	±0.1pF, ±0.25pF	432	200 200	0.125±0.013	R R
TMK021 CG1R7 K-W	 •	CG	C0G C0G	1.7 p 1.8 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	434 436	200	0.125±0.013 0.125±0.013	R
TMK021 CG1R9[K-W		CG	COG	1.9 p	±0.1pF, ±0.25pF	438	200	0.125±0.013	R
TMK021 CG020□K-W		CG	C0G	2 p	±0.1pF, ±0.25pF	440	200	0.125±0.013	R
TMK021 CG2R1 K-W		CG	COG	2.1 p	±0.1pF, ±0.25pF	442	200	0.125±0.013	R
TMK021 CG2R2□K-W TMK021 CG2R3□K-W	 •	CG	C0G C0G	2.2 p 2.3 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	444 446	200	0.125±0.013 0.125±0.013	R R
TMK021 CG2R4□K-W	 1	CG	COG	2.4 p	±0.1pF, ±0.25pF	448	200	0.125±0.013	R
TMK021 CG2R5∏K-W		CG	C0G	2.5 p	±0.1pF, ±0.25pF	450	200	0.125±0.013	R
TMK021 CG2R6 K-W		CG	COG	2.6 p	±0.1pF, ±0.25pF	452	200	0.125±0.013	R
TMK021 CG2R7□K-W TMK021 CG2R8□K-W	 -	CG	C0G C0G	2.7 p 2.8 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	454 456	200	0.125±0.013 0.125±0.013	R R
TMK021 CG2R8 K-W	 1	CG	COG	2.8 p 2.9 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	458	200	0.125±0.013	R
TMK021 CG030∏K-W		CG	COG	3 p	±0.1pF, ±0.25pF	460	200	0.125±0.013	R
TMK021 CG3R1[K-W		CG	C0G	3.1 p	±0.1pF, ±0.25pF	462	200	0.125±0.013	R
TMK021 CG3R2□K-W TMK021 CG3R3□K-W		CG	C0G C0G	3.2 p	±0.1pF, ±0.25pF	464 466	200 200	0.125±0.013	R
TMK021 CG3R3[]K-W		CG	COG	3.3 p 3.4 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	468	200	0.125±0.013 0.125±0.013	R R
TMK021 CG3R5[K-W		CG	COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.125±0.013	R
TMK021 CG3R6∏K-W		CG	COG	3.6 p	±0.1pF, ±0.25pF	472	200	0.125±0.013	R
TMK021 CG3R7 K-W		CG	COG	3.7 p	±0.1pF, ±0.25pF	474	200	0.125±0.013	R
TMK021 CG3R8□K-W TMK021 CG3R9□K-W	 •	CG	C0G C0G	3.8 p 3.9 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	476 478	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG040 K-W		CG	COG	4 p	±0.1pF, ±0.25pF	480	200	0.125±0.013	R
TMK021 CG4R1∏K-W		CG	C0G	4.1 p	±0.1pF, ±0.25pF	482	200	0.125±0.013	R
TMK021 CG4R2[K-W	 0.5	CG	COG	4.2 p	±0.1pF, ±0.25pF	484	200	0.125±0.013	R
TMK021 CG4R3□K-W TMK021 CG4R4□K-W	 25	CG	C0G C0G	4.3 p 4.4 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	486 488	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG4R5[K-W		CG	COG	4.5 p	±0.1pF, ±0.25pF	490	200	0.125±0.013	R
TMK021 CG4R6∏K-W		CG	C0G	4.6 p	±0.1pF, ±0.25pF	492	200	0.125±0.013	R
TMK021 CG4R7 K-W		CG	COG	4.7 p	±0.1pF, ±0.25pF	494	200	0.125±0.013	R
TMK021 CG4R8□K-W TMK021 CG4R9□K-W	 1	CG	C0G C0G	4.8 p 4.9 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	496 498	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG050∏K-W	 1	CG	COG	5 p	±0.1pF, ±0.25pF	500	200	0.125±0.013	R
TMK021 CG5R1∏K-W		CG	C0G	5.1 p	±0.25pF, ±0.5pF	502	200	0.125±0.013	R
TMK021 CG5R2 K-W		CG	COG	5.2 p	±0.25pF, ±0.5pF	504	200	0.125±0.013	R
TMK021 CG5R3□K-W TMK021 CG5R4□K-W	 •	CG	C0G C0G	5.3 p 5.4 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	506 508	200	0.125±0.013 0.125±0.013	R R
TMK021 CG5R5∏K-W	 1	CG	COG	5.5 p	±0.25pF, ±0.5pF	510	200	0.125±0.013	R
TMK021 CG5R6∏K-W		CG	C0G	5.6 p	±0.25pF, ±0.5pF	512	200	0.125±0.013	R
TMK021 CG5R7[K-W		CG	COG	5.7 p	±0.25pF, ±0.5pF	514	200	0.125±0.013	R
TMK021 CG5R8□K-W TMK021 CG5R9□K-W	 -	CG	C0G C0G	5.8 p 5.9 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	516 518	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG5R9UK-W	 1	CG	COG	5.9 p	±0.25pF, ±0.5pF	520	200	0.125±0.013	R
TMK021 CG6R1∏K-W		CG	C0G	6.1 p	±0.25pF, ±0.5pF	522	200	0.125±0.013	R
TMK021 CG6R2 K-W		CG	COG	6.2 p	±0.25pF, ±0.5pF	524	200	0.125±0.013	R
TMK021 CG6R3□K-W TMK021 CG6R4□K-W		CG	C0G C0G	6.3 p	±0.25pF, ±0.5pF	526 528	200	0.125±0.013 0.125±0.013	R R
TMK021 CG6R5[K-W		CG	COG	6.4 p 6.5 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	530	200	0.125±0.013	R
TMK021 CG6R6∐K-W		CG	COG	6.6 p	±0.25pF, ±0.5pF	532	200	0.125±0.013	R
TMK021 CG6R7 K-W		CG	COG	6.7 p	±0.25pF, ±0.5pF	534	200	0.125±0.013	R
TMK021 CG6R8 K-W	 -	CG	C0G	6.8 p	±0.25pF, ±0.5pF	536	200	0.125±0.013	R
TMK021 CG6R9□K-W TMK021 CG070□K-W	 -	CG	C0G C0G	6.9 p 7 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	538 540	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG7R1 K-W]	CG	COG	7.1 p	±0.25pF, ±0.5pF	542	200	0.125±0.013	R
TMK021 CG7R2□K-W		CG	C0G	7.2 p	±0.25pF, ±0.5pF	544	200	0.125±0.013	R
TMK021 CG7R3 K-W		CG	COG	7.3 p	±0.25pF, ±0.5pF	546	200	0.125±0.013	R
TMK021 CG7R4□K-W TMK021 CG7R5□K-W	 }	CG	C0G C0G	7.4 p 7.5 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	548 550	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG7R6∐K-W		CG	COG	7.5 p	±0.25pF, ±0.5pF	552	200	0.125±0.013	R
TMK021 CG7R7∏K-W		CG	COG	7.7 p	±0.25pF, ±0.5pF	554	200	0.125±0.013	R
TMK021 CG7R8∏K-W		CG	COG	7.8 p	±0.25pF, ±0.5pF	556	200	0.125±0.013	R
TMK021 CG7R9 K-W	 -	CG	C0G	7.9 p	±0.25pF, ±0.5pF	558	200	0.125±0.013	R
TMK021 CG080∏K-W TMK021 CG8R1∏K-W	 1	CG	C0G C0G	8 p 8.1 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	560 562	200 200	0.125±0.013 0.125±0.013	R R
TMK021 CG8R1 K-W		CG	COG	8.2 p	±0.25pF, ±0.5pF	564	200	0.125±0.013	R
THINGE I OGGINZLIN-W							200	0.125±0.013	R
TMK021 CG8R2 K-W TMK021 CG8R3 K-W TMK021 CG8R4 K-W		CG	C0G C0G	8.3 p 8.4 p	±0.25pF, ±0.5pF ±0.25pF, ±0.5pF	566 568	200	0.125±0.013	R

[▶]由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

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型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK021 CG8R6∏K-W			CG	COG	8.6 p	±0.25pF, ±0.5pF	572	200	0.125±0.013	R
TMK021 CG8R7[K-W			CG	COG	8.7 p	$\pm 0.25 pF, \pm 0.5 pF$	574	200	0.125±0.013	R
TMK021 CG8R8∏K-W			CG	COG	8.8 p	$\pm 0.25 pF, \pm 0.5 pF$	576	200	0.125±0.013	R
TMK021 CG8R9∏K-W			CG	COG	8.9 p	$\pm 0.25 pF, \pm 0.5 pF$	578	200	0.125±0.013	R
TMK021 CG090∏K-W			CG	COG	9 p	$\pm 0.25 pF, \pm 0.5 pF$	580	200	0.125 ± 0.013	R
TMK021 CG9R1□K-W			CG	COG	9.1 p	$\pm 0.25 pF, \pm 0.5 pF$	582	200	0.125 ± 0.013	R
TMK021 CG9R2[K-W			CG	COG	9.2 p	$\pm 0.25 pF, \pm 0.5 pF$	584	200	0.125 ± 0.013	R
TMK021 CG9R3∏K-W			CG	COG	9.3 p	$\pm 0.25 pF, \pm 0.5 pF$	586	200	0.125 ± 0.013	R
TMK021 CG9R4∏K-W			CG	C0G	9.4 p	±0.25pF, ±0.5pF	588	200	0.125 ± 0.013	R
TMK021 CG9R5∏K-W		25	CG	C0G	9.5 p	±0.25pF, ±0.5pF	590	200	0.125±0.013	R
TMK021 CG9R6∏K-W		25	CG	C0G	9.6 p	±0.25pF, ±0.5pF	592	200	0.125±0.013	R
TMK021 CG9R7∏K-W			CG	COG	9.7 p	±0.25pF, ±0.5pF	594	200	0.125±0.013	R
TMK021 CG9R8∏K-W			CG	COG	9.8 p	±0.25pF, ±0.5pF	596	200	0.125±0.013	R
TMK021 CG9R9∏K-W			CG	COG	9.9 p	±0.25pF, ±0.5pF	598	200	0.125±0.013	R
TMK021 CG100DK-W			CG	COG	10 p	±0.5pF	600	200	0.125 ± 0.013	R
TMK021 CG120JK-W			CG	COG	12 p	±5%	640	200	0.125±0.013	R
TMK021 CG150JK-W			CG	COG	15 p	±5%	700	200	0.125±0.013	R
TMK021 CG180JK-W			CG	COG	18 p	±5%	760	200	0.125±0.013	R
TMK021 CG220JK-W			CG	COG	22 p	±5%	840	200	0.125±0.013	R
TMK021 CG270JK-W			CG	COG	27 p	±5%	940	200	0.125±0.013	R
EMK021 CG330JK-W			CG	COG	33 p	±5%	1000	150	0.125±0.013	R
EMK021 CG390JK-W		16	CG	COG	39 p	±5%	1000	150	0.125±0.013	R
EMK021 CG470JK-W		10	CG	COG	47 p	±5%	1000	150	0.125±0.013	R
EMK021 CG560JK-W			CG	COG	56 p	±5%	1000	150	0.125±0.013	R

●042型

【温度特性 CG : CG/C0G】厚	芰 0.2mm (C,D)	1							I	
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TMK042 CG0R4□D-W			CG	COG	0.4 p	±0.05pF, ±0.1pF, ±0.25pF	408	200	0.2±0.02	R
TMK042 CG0R5∏D-W			CG	COG	0.5 p	±0.05pF, ±0.1pF, ±0.25pF	410	200	0.2±0.02	R
TMK042 CG0R6∏D-W			CG	COG	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	412	200	0.2 ± 0.02	R
TMK042 CG0R7□D-W			CG	COG	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	414	200	0.2 ± 0.02	R
TMK042 CGR75□D-W			CG	COG	0.75 p	±0.05pF, ±0.1pF, ±0.25pF	415	200	0.2 ± 0.02	R
TMK042 CG0R8□D-W			CG	COG	0.8 p	±0.05pF, ±0.1pF, ±0.25pF	416	200	0.2 ± 0.02	R
TMK042 CG0R9□D-W			CG	COG	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	418	200	0.2 ± 0.02	R
TMK042 CG010□D-W			CG	COG	1 p	±0.05pF, ±0.1pF, ±0.25pF	420	200	0.2 ± 0.02	R
TMK042 CG1R1 D-W			CG	COG	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	422	200	0.2 ± 0.02	R
TMK042 CG1R2□D-W			CG	COG	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	424	200	0.2 ± 0.02	R
TMK042 CG1R3□D-W			CG	COG	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	426	200	0.2 ± 0.02	R
TMK042 CG1R4□D-W			CG	COG	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	428	200	0.2±0.02	R
TMK042 CG1R5□D-W			CG	COG	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	430	200	0.2 ± 0.02	R
TMK042 CG1R6□D-W			CG	COG	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	432	200	0.2±0.02	R
TMK042 CG1R7∏D-W			CG	COG	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	434	200	0.2 ± 0.02	R
TMK042 CG1R8 D-W		1	CG	COG	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	436	200	0.2±0.02	R
TMK042 CG1R9□D-W		1	CG	COG	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	438	200	0.2±0.02	R
TMK042 CG020∏D-W			CG	COG	2 p	±0.05pF, ±0.1pF, ±0.25pF	440	200	0.2±0.02	R
TMK042 CG2R1∏D-W			CG	COG	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	442	200	0.2±0.02	R
TMK042 CG2R2□D-W			CG	COG	2.2 p	±0.05pF, ±0.1pF, ±0.25pF	444	200	0.2±0.02	R
TMK042 CG2R3□D-W			CG	COG	2.3 p	±0.05pF, ±0.1pF, ±0.25pF	446	200	0.2±0.02	R
TMK042 CG2R4 D-W			CG	COG	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	448	200	0.2±0.02	R
TMK042 CG2R5□D-W			CG	COG	2.5 p	±0.05pF, ±0.1pF, ±0.25pF	450	200	0.2±0.02	R
TMK042 CG2R6□D-W			CG	COG	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	452	200	0.2±0.02	R
TMK042 CG2R7∏D-W			CG	COG	2.7 p	±0.05pF, ±0.1pF, ±0.25pF	454	200	0.2 ± 0.02	R
TMK042 CG2R8∏D-W			CG	COG	2.8 p	±0.05pF, ±0.1pF, ±0.25pF	456	200	0.2 ± 0.02	R
TMK042 CG2R9 D-W			CG	COG	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	458	200	0.2±0.02	R
TMK042 CG030 D-W			CG	COG	3 p	±0.05pF, ±0.1pF, ±0.25pF	460	200	0.2±0.02	R
TMK042 CG3R1□D-W			CG	COG	3.1 p	±0.1pF, ±0.25pF	462	200	0.2±0.02	R
TMK042 CG3R2□D-W		25	CG	COG	3.2 p	±0.1pF, ±0.25pF	464	200	0.2±0.02	R
TMK042 CG3R3 D-W			CG	COG	3.3 p	±0.1pF, ±0.25pF	466	200	0.2±0.02	R
TMK042 CG3R4 D-W			CG	COG	3.4 p	±0.1pF, ±0.25pF	468	200	0.2±0.02	R
TMK042 CG3R5□D-W			CG	COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.2±0.02	R
TMK042 CG3R6∏D-W			CG	COG	3.6 p	±0.1pF, ±0.25pF	472	200	0.2±0.02	R
TMK042 CG3R7∏D-W			CG	COG	3.7 p	±0.1pF, ±0.25pF	474	200	0.2±0.02	R
TMK042 CG3R8 D-W			CG	COG	3.8 p	±0.1pF, ±0.25pF	476	200	0.2±0.02	R
TMK042 CG3R9□D-W			CG	COG	3.9 p	±0.1pF, ±0.25pF	478	200	0.2±0.02	R
TMK042 CG040[D-W			CG	COG	4 p	±0.1pF, ±0.25pF	480	200	0.2±0.02	R
TMK042 CG4R1 D-W			CG	COG	4.1 p	±0.1pF, ±0.25pF	482	200	0.2±0.02	R
TMK042 CG4R2□D-W			CG	COG	4.2 p	±0.1pF, ±0.25pF	484	200	0.2±0.02	R
TMK042 CG4R3 D-W		1	CG	COG	4.3 p	±0.1pF, ±0.25pF	486	200	0.2±0.02	R
TMK042 CG4R4∏D-W		1	CG	COG	4.4 p	±0.1pF, ±0.25pF	488	200	0.2±0.02	R
TMK042 CG4R5 D-W		1	CG	COG	4.4 p	±0.1pF, ±0.25pF	490	200	0.2±0.02	R
TMK042 CG4R6 D-W			CG	COG	4.6 p	±0.1pF, ±0.25pF	492	200	0.2±0.02	R
TMK042 CG4R7 D-W		1	CG	COG	4.0 p	±0.1pF, ±0.25pF	494	200	0.2±0.02	R
TMK042 CG4R8 D-W		1	CG	COG	4.7 p	±0.1pF, ±0.25pF	496	200	0.2±0.02	R
TMK042 CG4R9 D-W			CG	COG	4.9 p	±0.1pF, ±0.25pF	498	200	0.2±0.02	R
TMK042 CG050□D-W		1	CG	COG	5 p	±0.1pF, ±0.25pF	500	200	0.2±0.02	R
TMK042 CG5R1∏D-W		1	CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	502	200	0.2±0.02	R
TMK042 CG5R2[]D-W		1	CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	504	200	0.2±0.02 0.2±0.02	R
TMK042 CG5R3 D-W		1	CG	COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.2±0.02	R
TMK042 CG5R4 D-W		1	CG	COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.2±0.02 0.2±0.02	R
TMK042 CG5R5[]D-W		ł	CG	COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.2±0.02 0.2±0.02	R
TMK042 CG5R5[]D-W		1	CG	COG	5.6 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	510	200	0.2±0.02 0.2±0.02	R
TMK042 CG5R0[]D-W		1	CG	COG	5.7 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	514	200	0.2±0.02 0.2±0.02	R
TMK042 CG5R7[]D-W		1	CG	COG			514	200		R
TMK042 CG5R8UD-W		1	CG	COG	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	518	200	0.2±0.02 0.2±0.02	R
		1	CG	COG		±0.1pF, ±0.25pF, ±0.5pF	518 520	200		R
TMK042 CG060 D-W		l	UG	UUG	6 p	$\pm 0.1 pF$, $\pm 0.25 pF$, $\pm 0.5 pF$	520	200	0.2 ± 0.02	_ к

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

			1		**		Q值	高温负载		焊接方式
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	(at 1MHz) (min)	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
TMK042 CG6R1□D-W			CG	C0G	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	522	200	0.2 ± 0.02	R
TMK042 CG6R2□D-W			CG	C0G	6.2 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	524	200	0.2 ± 0.02	R
TMK042 CG6R3[D-W			CG	COG	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	526	200	0.2±0.02	R
TMK042 CG6R4[]D-W			CG	COG	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	528	200	0.2±0.02	R
TMK042 CG6R5□D-W TMK042 CG6R6□D-W			CG CG	C0G C0G	6.5 p 6.6 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	530 532	200	0.2±0.02 0.2±0.02	R R
TMK042 CG6R7[D-W			CG	COG	6.7 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	534	200	0.2±0.02 0.2±0.02	R
TMK042 CG6R8□D-W			CG	COG	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	536	200	0.2±0.02	R
TMK042 CG6R9 D-W			CG	COG	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	538	200	0.2 ± 0.02	R
TMK042 CG070[D-W			CG	COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	540	200	0.2±0.02	R
TMK042 CG7R1[D-W			CG	COG	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.2±0.02	R
TMK042 CG7R2□D-W			CG	COG	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	544	200	0.2±0.02	R
TMK042 CG7R3□D-W			CG	COG	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	546	200	0.2 ± 0.02	R
TMK042 CG7R4□D-W			CG	COG	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	548	200	0.2 ± 0.02	R
TMK042 CG7R5∏D-W			CG	COG	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.2 ± 0.02	R
TMK042 CG7R6□D-W			CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.2 ± 0.02	R
TMK042 CG7R7□D-W			CG	C0G	7.7 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	554	200	0.2 ± 0.02	R
TMK042 CG7R8□D-W			CG	C0G	7.8 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	556	200	0.2 ± 0.02	R
TMK042 CG7R9∏D-W			CG	C0G	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	558	200	0.2 ± 0.02	R
TMK042 CG080[D-W			CG	C0G	8 p	±0.1pF, ±0.25pF, ±0.5pF	560	200	0.2±0.02	R
TMK042 CG8R1 D-W			CG	COG	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	562	200	0.2±0.02	R
TMK042 CG8R2[]D-W			CG	COG	8.2 p	±0.1pF, ±0.25pF, ±0.5pF	564	200	0.2±0.02	R
TMK042 CG8R3[]D-W			CG	C0G C0G	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	566	200	0.2±0.02	R R
TMK042 CG8R4□D-W TMK042 CG8R5□D-W			CG	COG	8.4 p 8.5 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	568 570	200	0.2±0.02 0.2±0.02	R
TMK042 CG8R6 D-W			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	572	200	0.2±0.02	R
TMK042 CG8R7[D-W			CG	COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.2±0.02	R
TMK042 CG8R8□D-W			CG	COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.2 ± 0.02	R
TMK042 CG8R9[D-W			CG	COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.2±0.02	R
TMK042 CG090∏D-W			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.2 ± 0.02	R
TMK042 CG9R1□D-W			CG	COG	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.2±0.02	R
TMK042 CG9R2□D-W		O.F.	CG	COG	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	584	200	0.2 ± 0.02	R
TMK042 CG9R3∏D-W		25	CG	COG	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	586	200	0.2 ± 0.02	R
TMK042 CG9R4∏D-W			CG	COG	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	588	200	0.2 ± 0.02	R
TMK042 CG9R5□D-W			CG	C0G	9.5 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	590	200	0.2 ± 0.02	R
TMK042 CG9R6□D-W			CG	C0G	9.6 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	592	200	0.2 ± 0.02	R
TMK042 CG9R7□D-W			CG	C0G	9.7 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	594	200	0.2 ± 0.02	R
TMK042 CG9R8[D-W			CG	C0G	9.8 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	596	200	0.2 ± 0.02	R
TMK042 CG9R9[D-W			CG	C0G	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.2±0.02	R
TMK042 CG100DD-W			CG	COG	10 p	±0.5pF	600	200	0.2±0.02	R
TMK042 CG110JD-W			CG	COG	11 p	±5%	620	200	0.2 ± 0.02	R
TMK042 CG120JD-W TMK042 CG130JD-W			CG	C0G C0G	12 p	±5% ±5%	640 660	200	0.2±0.02 0.2±0.02	R R
TMK042 CG150JD-W			CG	COG	13 p 15 p	±5%	700	200	0.2±0.02 0.2±0.02	R
TMK042 CG160JC-W			CG	COG	16 p	±5%	720	200	0.2 ± 0.02	R
TMK042 CG180JC-W			CG	COG	18 p	±5%	760	200	0.2±0.02	R
TMK042 CG200JC-W			CG	COG	20 p	±5%	800	200	0.2±0.02	R
TMK042 CG220JC-W			CG	COG	22 p	±5%	840	200	0.2±0.02	R
TMK042 CG240JC-W			CG	COG	24 p	±5%	880	200	0.2±0.02	R
TMK042 CG270JC-W			CG	C0G	27 p	±5%	940	200	0.2 ± 0.02	R
TMK042 CG300JC-W			CG	COG	30 p	±5%	1000	200	0.2±0.02	R
TMK042 CG330JC-W			CG	COG	33 p	±5%	1000	200	0.2±0.02	R
TMK042 CG360JC-W			CG	C0G	36 p	±5%	1000	200	0.2 ± 0.02	R
TMK042 CG390JC-W			CG	COG	39 p	±5%	1000	200	0.2±0.02	R
TMK042 CG430JC-W			CG	COG	43 p	±5%	1000	200	0.2 ± 0.02	R
TMK042 CG470JC-W			CG	C0G	47 p	±5%	1000	200	0.2±0.02	R
TMK042 CG510JC-W			CG	C0G	51 p	±5%	1000	200	0.2±0.02	R
TMK042 CG560JC-W			CG	COG	56 p	±5%	1000	200	0.2±0.02	R
TMK042 CG620JC-W			CG	COG	62 p	±5%	1000	200	0.2±0.02	R
TMK042 CG680JC-W			CG	C0G	68 p	±5%	1000	200	0.2±0.02	R
TMK042 CG750JC-W TMK042 CG820JC-W			CG	C0G C0G	75 p	±5% ±5%	1000	200 200	0.2±0.02 0.2±0.02	R R
TMK042 CG820JC-W			CG	COG	82 p 91 p	±5%	1000	200	0.2±0.02 0.2±0.02	R
TMK042 CG9103C-W			CG	COG	100 p	±5%	1000	200	0.2±0.02 0.2±0.02	R
THINOTE GUIDIOU W			Ju	ood	100 p	± J 70	1000	200	U.Z - U.UZ	- 17

【温度特性 CG: CG/C0G】厚度 0.2mm (C,D)

【温度特性 CG: CG/C0G】 馬	見技 0.2mm (C,D)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
EMK042 CG0R4[]D-W			CG	COG	0.4 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	408	200	0.2 ± 0.02	R
EMK042 CG0R5[]D-W			CG	COG	0.5 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	410	200	0.2 ± 0.02	R
EMK042 CG0R6 D-W			CG	COG	0.6 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	412	200	0.2 ± 0.02	R
EMK042 CG0R7[]D-W			CG	COG	0.7 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	414	200	0.2 ± 0.02	R
EMK042 CGR75[]D-W			CG	COG	0.75 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	415	200	0.2 ± 0.02	R
EMK042 CG0R8[]D-W			CG	COG	0.8 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	416	200	0.2 ± 0.02	R
EMK042 CG0R9[D-W			CG	COG	0.9 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	418	200	0.2 ± 0.02	R
EMK042 CG010 D-W			CG	COG	1 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	420	200	0.2 ± 0.02	R
EMK042 CG1R1 D-W			CG	COG	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	422	200	0.2 ± 0.02	R
EMK042 CG1R2[]D-W			CG	COG	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	424	200	0.2 ± 0.02	R
EMK042 CG1R3[D-W		16	CG	COG	1.3 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	426	200	0.2 ± 0.02	R
EMK042 CG1R4[]D-W			CG	COG	1.4 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	428	200	0.2 ± 0.02	R
EMK042 CG1R5[]D-W			CG	COG	1.5 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	430	200	0.2 ± 0.02	R
EMK042 CG1R6 D-W			CG	COG	1.6 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	432	200	0.2 ± 0.02	R
EMK042 CG1R7[]D-W			CG	COG	1.7 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	434	200	0.2 ± 0.02	R
EMK042 CG1R8[]D-W			CG	COG	1.8 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	436	200	0.2 ± 0.02	R
EMK042 CG1R9[D-W			CG	COG	1.9 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	438	200	0.2 ± 0.02	R
EMK042 CG020 D-W			CG	COG	2 p	±0.05pF, ±0.1pF, ±0.25pF	440	200	0.2 ± 0.02	R
EMK042 CG2R1[]D-W			CG	COG	2.1 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	442	200	0.2 ± 0.02	R
EMK042 CG2R2[]D-W			CG	COG	2.2 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	444	200	0.2 ± 0.02	R
EMK042 CG2R3[]D-W			CG	COG	2.3 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	446	200	0.2 ± 0.02	R

[▶]由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

型写一见										
型믁1	型号2	额定电压	温度	特性	静电容量	静电容量允许偏差	Q值 (at 1MHz)	高温负载	厚度* ³ [mm]	焊接方式 R: 回流焊
土づり	王 72	[V]	/////	.14 IT	[F]	8) · 0 11/0 100 2	(min)	额定电压 x %	7-12 []	W: 波峰焊
EMK042 CG2R4[]D-W			CG	COG	2.4 p	±0.05pF, ±0.1pF, ±0.25pF	448	200	0.2 ± 0.02	R
EMK042 CG2R5[]D-W			CG	COG	2.5 p	± 0.05 pF, ± 0.1 pF, ± 0.25 pF	450	200	0.2 ± 0.02	R
EMK042 CG2R6[]D-W			CG	COG	2.6 p	±0.05pF, ±0.1pF, ±0.25pF	452	200	0.2±0.02	R
EMK042 CG2R7 D-W			CG	COG	2.7 p	±0.05pF, ±0.1pF, ±0.25pF ±0.05pF, ±0.1pF, ±0.25pF	454 456	200 200	0.2±0.02	R R
EMK042 CG2R8 D-W EMK042 CG2R9 D-W			CG	C0G C0G	2.8 p 2.9 p	±0.05pF, ±0.1pF, ±0.25pF ±0.05pF, ±0.1pF, ±0.25pF	458	200	0.2±0.02 0.2±0.02	R
EMK042 CG030 D-W			CG	COG	3 p	±0.05pF, ±0.1pF, ±0.25pF	460	200	0.2±0.02	R
EMK042 CG3R1[]D-W			CG	COG	3.1 p	±0.1pF, ±0.25pF	462	200	0.2±0.02	R
EMK042 CG3R2[]D-W			CG	C0G	3.2 p	±0.1pF, ±0.25pF	464	200	0.2 ± 0.02	R
EMK042 CG3R3[]D-W			CG	COG	3.3 p	±0.1pF, ±0.25pF	466	200	0.2 ± 0.02	R
EMK042 CG3R4[]D-W			CG	COG	3.4 p	±0.1pF, ±0.25pF	468	200	0.2 ± 0.02	R
EMK042 CG3R5[]D-W			CG	COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.2 ± 0.02	R
EMK042 CG3R6[]D-W			CG	COG	3.6 p	±0.1pF, ±0.25pF	472	200	0.2±0.02	R
EMK042 CG3R7 D-W EMK042 CG3R8 D-W			CG	C0G C0G	3.7 p 3.8 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	474 476	200 200	0.2±0.02 0.2±0.02	R R
EMK042 CG3R9 D-W			CG	COG	3.9 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	478	200	0.2±0.02	R
EMK042 CG040 D-W			CG	COG	4 p	±0.1pF, ±0.25pF	480	200	0.2±0.02	R
EMK042 CG4R1 D-W			CG	COG	4.1 p	±0.1pF, ±0.25pF	482	200	0.2 ± 0.02	R
EMK042 CG4R2[]D-W			CG	COG	4.2 p	±0.1pF, ±0.25pF	484	200	0.2±0.02	R
EMK042 CG4R3[]D-W			CG	COG	4.3 p	±0.1pF, ±0.25pF	486	200	0.2 ± 0.02	R
EMK042 CG4R4[]D-W			CG	COG	4.4 p	±0.1pF, ±0.25pF	488	200	0.2 ± 0.02	R
EMK042 CG4R5[]D-W			CG	COG	4.5 p	±0.1pF, ±0.25pF	490	200	0.2 ± 0.02	R
EMK042 CG4R6 D-W			CG	COG	4.6 p	±0.1pF, ±0.25pF	492	200	0.2±0.02	R
EMK042 CG4R7[D-W			CG	COG	4.7 p	±0.1pF, ±0.25pF	494	200	0.2±0.02	R
EMK042 CG4R8[]D-W			CG	COG	4.8 p	±0.1pF, ±0.25pF	496	200	0.2±0.02	R
EMK042 CG4R9 D-W			CG	COG	4.9 p	±0.1pF, ±0.25pF	498	200	0.2±0.02	R
EMK042 CG050[]D-W EMK042 CG5R1[]D-W			CG CG	C0G C0G	5 p 5.1 p	±0.1pF, ±0.25pF +0.1pF +0.25pF +0.5pF	500 502	200 200	0.2±0.02 0.2±0.02	R R
EMK042 CG5R1 D-W			CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	504	200	0.2±0.02 0.2±0.02	R
EMK042 CG5R3 D-W			CG	COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.2±0.02	R
EMK042 CG5R4[]D-W			CG	COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.2±0.02	R
EMK042 CG5R5[]D-W			CG	COG	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.2±0.02	R
EMK042 CG5R6[]D-W			CG	C0G	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	512	200	0.2±0.02	R
EMK042 CG5R7[]D-W			CG	C0G	5.7 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	514	200	0.2 ± 0.02	R
EMK042 CG5R8[]D-W			CG	C0G	5.8 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	516	200	0.2 ± 0.02	R
EMK042 CG5R9[]D-W			CG	C0G	5.9 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	518	200	0.2 ± 0.02	R
EMK042 CG060 D-W			CG	COG	6 p	±0.1pF, ±0.25pF, ±0.5pF	520	200	0.2±0.02	R
EMK042 CG6R1 D-W			CG	COG	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	522	200	0.2±0.02	R
EMK042 CG6R2 D-W EMK042 CG6R3 D-W			CG	C0G C0G	6.2 p 6.3 p	±0.1pF, ±0.25pF, ±0.5pF	524 526	200	0.2±0.02 0.2±0.02	R R
EMK042 CG6R4 D-W			CG	COG	6.4 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	528	200	0.2±0.02	R
EMK042 CG6R5 D-W			CG	COG	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	530	200	0.2±0.02	R
EMK042 CG6R6 D-W			CG	COG	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	532	200	0.2±0.02	R
EMK042 CG6R7[D-W			CG	COG	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	534	200	0.2 ± 0.02	R
EMK042 CG6R8[D-W		16	CG	COG	6.8 p	±0.1pF, ±0.25pF, ±0.5pF	536	200	0.2 ± 0.02	R
EMK042 CG6R9[D-W		10	CG	C0G	6.9 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	538	200	0.2 ± 0.02	R
EMK042 CG070[D-W			CG	COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	540	200	0.2±0.02	R
EMK042 CG7R1[D-W			CG	COG	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.2±0.02	R
EMK042 CG7R2[]D-W EMK042 CG7R3[]D-W			CG CG	C0G C0G	7.2 p 7.3 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	544 546	200 200	0.2±0.02 0.2±0.02	R R
EMK042 CG7R3[]D-W			CG	COG	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	548	200	0.2±0.02	R
EMK042 CG7R5[]D-W			CG	COG	7. 4 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.2±0.02	R
EMK042 CG7R6[]D-W			CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.2±0.02	R
EMK042 CG7R7[]D-W			CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	554	200	0.2 ± 0.02	R
EMK042 CG7R8[]D-W			CG	COG	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	556	200	0.2 ± 0.02	R
EMK042 CG7R9[]D-W			CG	C0G	7.9 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	558	200	0.2 ± 0.02	R
EMK042 CG080 D-W			CG	C0G	8 p	±0.1pF, ±0.25pF, ±0.5pF	560	200	0.2±0.02	R
EMK042 CG8R1 D-W			CG	COG	8.1 p	±0.1pF, ±0.25pF, ±0.5pF	562	200	0.2±0.02	R
EMK042 CG8R2□D-W EMK042 CG8R3□D-W			CG	C0G C0G	8.2 p 8.3 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	564 566	200 200	0.2±0.02 0.2±0.02	R
EMK042 CG8R3D-W			CG	COG	8.3 p 8.4 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	568	200	0.2±0.02 0.2±0.02	R R
EMK042 CG8R5 D-W			CG	COG	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	570	200	0.2±0.02	R
EMK042 CG8R6 D-W			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	572	200	0.2±0.02	R
EMK042 CG8R7[D-W			CG	C0G	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.2±0.02	R
EMK042 CG8R8 D-W			CG	C0G	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.2±0.02	R
EMK042 CG8R9 D-W			CG	C0G	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.2±0.02	R
EMK042 CG090[D-W			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.2±0.02	R
EMK042 CG9R1 D-W			CG	C0G	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.2±0.02	R
EMK042 CG9R2[]D-W EMK042 CG9R3[]D-W			CG CG	C0G C0G	9.2 p 9.3 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	584 586	200 200	0.2±0.02 0.2±0.02	R R
EMK042 CG9R3_D-W EMK042 CG9R4_D-W			CG	COG	9.3 p 9.4 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	588	200	0.2±0.02 0.2±0.02	R
EMK042 CG9R5 D-W			CG	COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	590	200	0.2±0.02	R
EMK042 CG9R6 D-W			CG	COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	592	200	0.2±0.02	R
EMK042 CG9R7□D-W			CG	COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	594	200	0.2±0.02	R
EMK042 CG9R8[D-W			CG	C0G	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	596	200	0.2±0.02	R
EMK042 CG9R9∏D-W			CG	COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.2±0.02	R
EMK042 CG100DD-W			CG	COG	10 p	±0.5pF	600	200	0.2±0.02	R
EMK042 CG110JD-W			CG	COG	11 p	±5%	620	200	0.2±0.02	R
EMK042 CG120JD-W			CG	COG	12 p	±5%	640	200	0.2±0.02	R
EMK042 CG130JD-W			CG	C0G C0G	13 p 15 p	±5% +5%	660 700	200 200	0.2±0.02 0.2±0.02	R R
EMK042 CG150JD-W EMK042 CG160JC-W			CG	COG	15 p 16 p	±5% ±5%	700 720	200	0.2±0.02 0.2±0.02	R
EMK042 CG180JC-W			CG	COG	16 p	±5% ±5%	760	200	0.2±0.02 0.2±0.02	R
EMK042 CG200JC-W			CG	COG	20 p	±5%	800	200	0.2±0.02	R
EMK042 CG220JC-W			CG	COG	22 p	±5%	840	200	0.2±0.02	R
EMK042 CG240JC-W			CG	COG	24 p	±5%	880	200	0.2±0.02	R
EMK042 CG270JC-W	_		CG	C0G	27 p	±5%	940	200	0.2±0.02	R
			00	COG	30 p	±5%	1000	200	0.0 + 0.00	R
EMK042 CG300JC-W			CG						0.2±0.02	
			CG	COG COG	33 p 36 p	±5% ±5%	1000	200 200 200	0.2±0.02 0.2±0.02 0.2±0.02	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

型号1	型号2	额定电压 [V]	温度	E 特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
EMK042 CG390JC-W			CG	COG	39 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG430JC-W			CG	COG	43 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG470JC-W			CG	COG	47 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG510JC-W			CG	COG	51 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG560JC-W			CG	COG	56 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG620JC-W		16	CG	COG	62 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG680JC-W			CG	COG	68 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG750JC-W			CG	COG	75 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG820JC-W			CG	COG	82 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG910JC-W			CG	COG	91 p	±5%	1000	200	0.2 ± 0.02	R
EMK042 CG101JC-W			CG	COG	100 p	±5%	1000	200	0.2 ± 0.02	R
LMK042 CG221JC-W		10	CG	C0G	220 p	±5%	1000	200	0.2 ± 0.02	R

●063型

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK063 CG0R2∏T-F			CG	COG	0.2 p	±0.1pF, ±0.25pF	404	200	0.3±0.03	R
UMK063 CG0R3[T-F		1	CG	COG	0.3 p	±0.1pF, ±0.25pF	406	200	0.3 ± 0.03	R
UMK063 CG0R4[]T-F			CG	COG	0.4 p	±0.1pF, ±0.25pF	408	200	0.3±0.03	R
UMK063 CG0R5[]T-F			CG	COG	0.5 p	±0.1pF, ±0.25pF	410	200	0.3 ± 0.03	R
UMK063 CG0R6∏T-F			CG	COG	0.6 p	±0.1pF, ±0.25pF	412	200	0.3 ± 0.03	R
UMK063 CG0R7[T-F			CG	COG	0.7 p	±0.1pF, ±0.25pF	414	200	0.3 ± 0.03	R
UMK063 CGR75∏T-F			CG	C0G	0.75 p	$\pm 0.1 pF$, $\pm 0.25 pF$	415	200	0.3 ± 0.03	R
UMK063 CG0R8 T-F			CG	COG	0.8 p	±0.1pF, ±0.25pF	416	200	0.3 ± 0.03	R
UMK063 CG0R9[T-F			CG	COG	0.9 p	±0.1pF, ±0.25pF	418	200	0.3 ± 0.03	R
UMK063 CG010∏T-F			CG	COG	1 p	±0.1pF, ±0.25pF	420	200	0.3 ± 0.03	R
UMK063 CG1R1 T-F			CG	COG	1.1 p	±0.1pF, ±0.25pF	422	200	0.3±0.03	R
UMK063 CG1R2 T-F			CG	COG	1.2 p	±0.1pF, ±0.25pF	424	200	0.3±0.03	R
UMK063 CG1R3∏T-F UMK063 CG1R4∏T-F			CG	COG	1.3 p	±0.1pF, ±0.25pF	426	200	0.3±0.03	R
			CG	COG	1.4 p	±0.1pF, ±0.25pF	428	200	0.3±0.03	R
UMK063 CG1R5 T-F			CG	COG	1.5 p	±0.1pF, ±0.25pF	430 432	200 200	0.3±0.03	R R
UMK063 CG1R6 T-F UMK063 CG1R7 T-F		1	CG	C0G C0G	1.6 p 1.7 p	±0.1pF, ±0.25pF	434	200	0.3±0.03 0.3±0.03	R
UMK063 CG1R7 T-F			CG	COG	1.7 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	436	200	0.3±0.03	R
UMK063 CG1R9 T-F		1	CG	COG	1.8 p	±0.1pF, ±0.25pF	438	200	0.3±0.03	R
UMK063 CG020 T-F		1	CG	COG	1.9 p	±0.1pF, ±0.25pF	440	200	0.3±0.03	R
UMK063 CG2R1 T-F		1	CG	COG	2.1 p	±0.1pF, ±0.25pF	442	200	0.3±0.03	R
UMK063 CG2R2 T-F		1	CG	COG	2.1 p	±0.1pF, ±0.25pF	444	200	0.3±0.03	R
UMK063 CG2R3[T-F		1	CG	COG	2.3 p	±0.1pF, ±0.25pF	446	200	0.3±0.03	R
UMK063 CG2R4[T-F			CG	COG	2.4 p	±0.1pF, ±0.25pF	448	200	0.3±0.03	R
UMK063 CG2R5∏T-F			CG	COG	2.5 p	±0.1pF, ±0.25pF	450	200	0.3±0.03	R
UMK063 CG2R6∏T-F		1	CG	COG	2.6 p	±0.1pF, ±0.25pF	452	200	0.3±0.03	R
UMK063 CG2R7∏T-F		1	CG	COG	2.7 p	±0.1pF, ±0.25pF	454	200	0.3±0.03	R
UMK063 CG2R8∏T-F		1	CG	COG	2.8 p	±0.1pF, ±0.25pF	456	200	0.3 ± 0.03	R
UMK063 CG2R9∏T-F			CG	COG	2.9 p	±0.1pF, ±0.25pF	458	200	0.3±0.03	R
UMK063 CG030∏T-F			CG	COG	3 p	±0.1pF, ±0.25pF	460	200	0.3 ± 0.03	R
UMK063 CG3R1∏T-F			CG	COG	3.1 p	±0.1pF, ±0.25pF	462	200	0.3 ± 0.03	R
UMK063 CG3R2[]T-F			CG	C0G	3.2 p	$\pm 0.1 pF$, $\pm 0.25 pF$	464	200	0.3 ± 0.03	R
UMK063 CG3R3[T-F			CG	C0G	3.3 p	$\pm 0.1 pF$, $\pm 0.25 pF$	466	200	0.3 ± 0.03	R
UMK063 CG3R4∏T-F			CG	COG	3.4 p	±0.1pF, ±0.25pF	468	200	0.3 ± 0.03	R
UMK063 CG3R5[T-F		50	CG	COG	3.5 p	±0.1pF, ±0.25pF	470	200	0.3 ± 0.03	R
UMK063 CG3R6 T-F			CG	C0G	3.6 p	±0.1pF, ±0.25pF	472	200	0.3±0.03	R
UMK063 CG3R7 T-F			CG	COG	3.7 p	±0.1pF, ±0.25pF	474	200	0.3±0.03	R
UMK063 CG3R8 T-F			CG	COG	3.8 p	±0.1pF, ±0.25pF	476	200	0.3±0.03	R
UMK063 CG3R9 T-F			CG	COG	3.9 p	±0.1pF, ±0.25pF	478	200	0.3±0.03	R
UMK063 CG040[]T-F UMK063 CG4R1[]T-F			CG	C0G C0G	4 p 4.1 p	±0.1pF, ±0.25pF ±0.1pF, ±0.25pF	480 482	200 200	0.3±0.03 0.3±0.03	R
UMK063 CG4R1 T-F			CG	COG	4.1 p	±0.1pF, ±0.25pF	484	200	0.3±0.03	R R
UMK063 CG4R3 T-F		1	CG	COG	4.2 p	±0.1pF, ±0.25pF	486	200	0.3±0.03	R
UMK063 CG4R4 T-F			CG	COG	4.5 p	±0.1pF, ±0.25pF	488	200	0.3±0.03	R
UMK063 CG4R5 T-F			CG	COG	4.4 p	±0.1pF, ±0.25pF	490	200	0.3±0.03	R
UMK063 CG4R6 T-F		1	CG	COG	4.6 p	±0.1pF, ±0.25pF	492	200	0.3±0.03	R
UMK063 CG4R7 T-F		1	CG	COG	4.7 p	±0.1pF, ±0.25pF	494	200	0.3±0.03	R
UMK063 CG4R8∏T-F		1	CG	COG	4.8 p	±0.1pF, ±0.25pF	496	200	0.3±0.03	R
UMK063 CG4R9[T-F		1	CG	COG	4.9 p	±0.1pF, ±0.25pF	498	200	0.3±0.03	R
UMK063 CG050∏T-F			CG	COG	5 p	±0.1pF, ±0.25pF	500	200	0.3±0.03	R
UMK063 CG5R1 T-F		1	CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	502	200	0.3±0.03	R
UMK063 CG5R2 T-F		1	CG	COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	504	200	0.3±0.03	R
UMK063 CG5R3 T-F		1	CG	COG	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	506	200	0.3±0.03	R
UMK063 CG5R4[]T-F		1	CG	C0G	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	508	200	0.3±0.03	R
UMK063 CG5R5[]T-F		1	CG	COG	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	510	200	0.3 ± 0.03	R
UMK063 CG5R6[]T-F			CG	COG	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	512	200	0.3 ± 0.03	R
UMK063 CG5R7[]T-F			CG	COG	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	514	200	0.3 ± 0.03	R
UMK063 CG5R8[]T-F	<u> </u>]	CG	COG	5.8 p	±0.1pF, ±0.25pF, ±0.5pF	516	200	0.3±0.03	R
UMK063 CG5R9[]T-F		1	CG	C0G	5.9 p	±0.1pF, ±0.25pF, ±0.5pF	518	200	0.3±0.03	R
UMK063 CG060∏T-F		1	CG	C0G	6 p	±0.1pF, ±0.25pF, ±0.5pF	520	200	0.3±0.03	R
UMK063 CG6R1 T-F		1	CG	C0G	6.1 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	522	200	0.3±0.03	R
UMK063 CG6R2[T-F		1	CG	C0G	6.2 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	524	200	0.3 ± 0.03	R
UMK063 CG6R3[]T-F		1	CG	C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	526	200	0.3±0.03	R
UMK063 CG6R4[]T-F		1	CG	C0G	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	528	200	0.3±0.03	R
UMK063 CG6R5[]T-F		1	CG	C0G	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	530	200	0.3±0.03	R
UMK063 CG6R6[]T-F		1	CG	COG	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	532	200	0.3±0.03	R
UMK063 CG6R7[T-F		1	CG	COG	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	534	200	0.3±0.03	R
UMK063 CG6R8[T-F		1	CG	C0G	6.8 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	536	200	0.3±0.03	R
UMK063 CG6R9[T-F		1	CG	C0G	6.9 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	538	200	0.3±0.03	R
UMK063 CG070 T-F			CG	COG	7 p	$\pm 0.1 pF$, $\pm 0.25 pF$, $\pm 0.5 pF$	540	200	0.3 ± 0.03	R

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型号1	型号2	额定电压 [V]	温度	E 特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK063 CG7R1∏T-F			CG	C0G	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	542	200	0.3±0.03	R
UMK063 CG7R2[T-F			CG	COG	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	544	200	0.3 ± 0.03	R
UMK063 CG7R3∏T-F			CG	COG	7.3 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	546	200	0.3 ± 0.03	R
UMK063 CG7R4∏T-F			CG	C0G	7.4 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	548	200	0.3 ± 0.03	R
UMK063 CG7R5[T-F			CG	C0G	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	550	200	0.3 ± 0.03	R
UMK063 CG7R6 T-F			CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	552	200	0.3±0.03	R
UMK063 CG7R7[]T-F			CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	554	200	0.3±0.03	R
UMK063 CG7R8[]T-F			CG	C0G	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	556	200	0.3±0.03	R
UMK063 CG7R9[]T-F			CG	C0G C0G	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	558	200 200	0.3±0.03	R
UMK063 CG080[T-F UMK063 CG8R1[T-F			CG CG	COG	8 p 8.1 p	±0.1pF, ±0.25pF, ±0.5pF	560 562	200	0.3±0.03 0.3±0.03	R R
UMK063 CG8R2[]T-F			CG	COG	8.2 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	564	200	0.3±0.03	R
UMK063 CG8R3[]T-F			CG	COG	8.3 p	±0.1pF, ±0.25pF, ±0.5pF	566	200	0.3±0.03	R
UMK063 CG8R4[]T-F			CG	COG	8.4 p	±0.1pF, ±0.25pF, ±0.5pF	568	200	0.3±0.03	R
UMK063 CG8R5[]T-F			CG	COG	8.5 p	±0.1pF, ±0.25pF, ±0.5pF	570	200	0.3±0.03	R
UMK063 CG8R6[]T-F			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	572	200	0.3±0.03	R
UMK063 CG8R7[]T-F			CG	COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	574	200	0.3±0.03	R
UMK063 CG8R8[]T-F			CG	COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	576	200	0.3±0.03	R
UMK063 CG8R9[]T-F			CG	COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	578	200	0.3±0.03	R
UMK063 CG090∏T-F			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	580	200	0.3±0.03	R
UMK063 CG9R1 T-F			CG	COG	9.1 p	±0.1pF, ±0.25pF, ±0.5pF	582	200	0.3±0.03	R
UMK063 CG9R2[]T-F			CG	COG	9.2 p	±0.1pF, ±0.25pF, ±0.5pF	584	200	0.3±0.03	R
UMK063 CG9R3[T-F			CG	COG	9.3 p	±0.1pF, ±0.25pF, ±0.5pF	586	200	0.3±0.03	R
UMK063 CG9R4∏T-F			CG	COG	9.4 p	±0.1pF, ±0.25pF, ±0.5pF	588	200	0.3±0.03	R
UMK063 CG9R5 T-F			CG	COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	590	200	0.3±0.03	R
UMK063 CG9R6 T-F			CG	COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	592	200	0.3±0.03	R
UMK063 CG9R7[T-F			CG	COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	594	200	0.3±0.03	R
UMK063 CG9R8[T-F			CG	COG	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	596	200	0.3±0.03	R
UMK063 CG9R9∏T-F			CG	COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	598	200	0.3±0.03	R
UMK063 CG100DT-F			CG	COG	10 p	±0.5pF	600	200	0.3 ± 0.03	R
UMK063 CG110JT-F		50	CG	COG	11 p	±5%	620	200	0.3±0.03	R
UMK063 CG120JT-F			CG	COG	12 p	±5%	640	200	0.3±0.03	R
UMK063 CG130JT-F			CG	COG	13 p	±5%	660	200	0.3±0.03	R
UMK063 CG150JT-F			CG	COG	15 p	±5%	700	200	0.3±0.03	R
UMK063 CG160JT-F			CG	COG	16 p	±5%	720	200	0.3 ± 0.03	R
UMK063 CG180JT-F			CG	COG	18 p	±5%	760	200	0.3±0.03	R
UMK063 CG200JT-F			CG	COG	20 p	±5%	800	200	0.3 ± 0.03	R
UMK063 CG220JT-F			CG	COG	22 p	±5%	840	200	0.3 ± 0.03	R
UMK063 CG240JT-F			CG	COG	24 p	±5%	880	200	0.3 ± 0.03	R
UMK063 CG270JT-F			CG	C0G	27 p	±5%	940	200	0.3 ± 0.03	R
UMK063 CG300JT-F			CG	C0G	30 p	±5%	1000	200	0.3 ± 0.03	R
UMK063 CG330JT-F			CG	C0G	33 p	±5%	1000	200	0.3 ± 0.03	R
UMK063 CG360JT-F			CG	C0G	36 p	±5%	1000	200	0.3 ± 0.03	R
UMK063 CG390JT-F			CG	COG	39 p	±5%	1000	200	0.3 ± 0.03	R
UMK063 CG430JT-F			CG	COG	43 p	±5%	1000	200	0.3±0.03	R
UMK063 CG470JT-F			CG	C0G	47 p	±5%	1000	200	0.3±0.03	R
UMK063 CG510JT-F			CG	COG	51 p	±5%	1000	200	0.3±0.03	R
UMK063 CG560JT-F			CG	C0G	56 p	±5%	1000	200	0.3±0.03	R
UMK063 CG620JT-F			CG	COG	62 p	±5%	1000	200	0.3±0.03	R
UMK063 CG680JT-F			CG	COG	68 p	±5%	1000	200	0.3±0.03	R
UMK063 CG750JT-F			CG	COG	75 p	±5%	1000	200	0.3±0.03	R
UMK063 CG820JT-F			CG	COG	82 p	±5%	1000	200	0.3±0.03	R
UMK063 CG910JT-F			CG	C0G C0G	91 p	±5% +5%	1000	200 200	0.3±0.03	R R
UMK063 CG101JT-F UMK063 CG111JT-F			CG	COG	100 p 110 p	±5% ±5%	1000	200	0.3±0.03 0.3±0.03	R
UMK063 CG111J1-F UMK063 CG121JT-F			CG	COG	110 p	±5% ±5%	1000	200	0.3±0.03 0.3±0.03	R
UMK063 CG121J1-F UMK063 CG131JT-F			CG	COG	120 p	±5% ±5%	1000	200	0.3±0.03 0.3±0.03	R
UMK063 CG151JT-F			CG	COG	150 p	±5% ±5%	1000	200	0.3±0.03 0.3±0.03	R
UMK063 CG15131-F			CG	COG	180 p	±5%	1000	200	0.3±0.03	R
UMK063 CG201JT-F			CG	COG	200 p	±5%	1000	200	0.3±0.03	R
UMK063 CG201JT-F			CG	COG	200 p	±5%	1000	200	0.3±0.03 0.3±0.03	R
TMK063 CG241JT-F			CG	COG	240 p	±5%	1000	200	0.3±0.03	R
TMK063 CG271JT-F			CG	COG	270 p	±5%	1000	200	0.3±0.03	R
TMK063 CG301JT-F			CG	COG	300 p	±5%	1000	200	0.3±0.03	R
TMK063 CG331JT-F			CG	COG	330 p	±5%	1000	200	0.3±0.03	R
TMK063 CG35101 F			CG	COG	360 p	±5%	1000	200	0.3±0.03	R
TMK063 CG391JT-F			CG	COG	390 p	±5%	1000	200	0.3±0.03	R
TMK063 CG431JT-F			CG	COG	430 p	±5%	1000	200	0.3±0.03	R
TMK063 CG471JT-F			CG	COG	470 p	±5%	1000	200	0.3±0.03	R
TMK063 CG511JT-F		25	CG	COG	510 p	±5%	1000	200	0.3±0.03	R
TMK063 CG561JT-F			CG	COG	560 p	±5%	1000	200	0.3±0.03	R
TMK063 CG621JT-F			CG	COG	620 p	±5%	1000	200	0.3±0.03	R
TMK063 CG681JT-F			CG	COG	680 p	±5%	1000	200	0.3±0.03	R
TMK063 CG751JT-F			CG	COG	750 p	±5%	1000	200	0.3±0.03	R
TMK063 CG821JT-F			CG	COG	820 p	±5%	1000	200	0.3±0.03	R
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TMK063 CG911JT-F			CG	COG	910 p	±5%	1000	200	0.3 ± 0.03	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

●105型

【温度特性 CG: CG/C0G】厚度 0.5mm (V)

【温度特性 CG: CG/C0G】	見度 0.5mm (V)									
型号1	<u> </u>	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK105 CG0R5CV-F			CG	COG	0.5 p	±0.25pF	410	200	0.5±0.05	R
UMK105 CG010CV-F			CG	COG	1 p	±0.25pF	420	200	0.5±0.05	R
UMK105 CG1R5CV-F			CG	COG	1.5 p	±0.25pF	430	200	0.5±0.05	R
UMK105 CG020CV-F			CG	COG	2 p	±0.25pF	440	200	0.5±0.05	R
UMK105 CG030CV-F			CG	COG	3 р	±0.25pF	460	200	0.5±0.05	R
UMK105 CG040CV-F			CG	COG	4 p	±0.25pF	480	200	0.5±0.05	R
UMK105 CG050CV-F			CG	COG	5 p	±0.25pF	500	200	0.5±0.05	R
UMK105 CG060DV-F			CG	COG	6 p	±0.5pF	520	200	0.5±0.05	R
UMK105 CG070DV-F		1	CG	COG	7 p	±0.5pF	540	200	0.5±0.05	R
UMK105 CG080DV-F			CG	COG	8 p	±0.5pF	560	200	0.5±0.05	R
UMK105 CG090DV-F			CG	COG	9 p	±0.5pF	580	200	0.5±0.05	R
UMK105 CG100DV-F			CG	COG	10 p	±0.5pF	600	200	0.5±0.05	R
UMK105 CG120JV-F			CG	COG	12 p	±5%	640	200	0.5±0.05	R
UMK105 CG150JV-F			CG	COG	15 p	±5%	700	200	0.5±0.05	R
UMK105 CG180JV-F			CG	COG	18 p	±5%	760	200	0.5±0.05	R
UMK105 CG220JV-F		1	CG	COG	22 p	±5%	840	200	0.5±0.05	R
UMK105 CG270JV-F		1	CG	COG	27 p	±5%	940	200	0.5±0.05	R
UMK105 CG330JV-F		50	CG	COG	33 p	±5%	1000	200	0.5±0.05	R
UMK105 CG390JV-F		50	CG	COG	39 p	±5%	1000	200	0.5±0.05	R
UMK105 CG470JV-F			CG	COG	47 p	±5%	1000	200	0.5±0.05	R
UMK105 CG560JV-F			CG	COG	56 p	±5%	1000	200	0.5±0.05	R
UMK105 CG680JV-F			CG	COG	68 p	±5%	1000	200	0.5±0.05	R
UMK105 CG820JV-F			CG	COG	82 p	±5%	1000	200	0.5±0.05	R
UMK105 CG101JV-F			CG	COG	100 p	±5%	1000	200	0.5±0.05	R
UMK105 CG121JV-F			CG	COG	120 p	±5%	1000	200	0.5±0.05	R
UMK105 CG151JV-F			CG	COG	150 p	±5%	1000	200	0.5±0.05	R
UMK105 CG181JV-F			CG	COG	180 p	±5%	1000	200	0.5±0.05	R
UMK105 CG221JV-F			CG	COG	220 p	±5%	1000	200	0.5±0.05	R
UMK105 CG271JV-F			CG	COG	270 p	±5%	1000	200	0.5±0.05	R
UMK105 CG331JV-F			CG	COG	330 р	±5%	1000	200	0.5±0.05	R
UMK105 CG391JV-F			CG	COG	390 р	±5%	1000	200	0.5±0.05	R
UMK105 CG471JV-F		1	CG	COG	470 p	±5%	1000	200	0.5±0.05	R
UMK105 CG561JV-F		1	CG	COG	560 p	±5%	1000	200	0.5±0.05	R
UMK105 CG681JV-F		1	CG	COG	680 p	±5%	1000	200	0.5±0.05	R
UMK105 CG821JV-F		1	CG	COG	820 p	±5%	1000	200	0.5±0.05	R
UMK105 CG102JV-F		<u> </u>	CG	COG	1000 p	±5%	1000	200	0.5 ± 0.05	R

【温度特性 U△: U△/U2△】厚度 0.5mm (V)

【温度特性 U△ : U△/U2△】	厚皮 0.5mm (V)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK105 UK0R5CV-F			UK	U2K	0.5 p	±0.25pF	410	200	0.5 ± 0.05	R
UMK105 UK010CV-F			UK	U2K	1 p	±0.25pF	420	200	0.5 ± 0.05	R
UMK105 UK1R5CV-F			UK	U2K	1.5 p	±0.25pF	430	200	0.5 ± 0.05	R
UMK105 UK020CV-F			UK	U2K	2 p	±0.25pF	440	200	0.5±0.05	R
UMK105 UK030CV-F			UK	U2K	3 p	±0.25pF	460	200	0.5±0.05	R
UMK105 UJ040CV-F			UJ	U2J	4 p	±0.25pF	480	200	0.5 ± 0.05	R
UMK105 UJ050CV-F			UJ	U2J	5 p	±0.25pF	500	200	0.5±0.05	R
UMK105 UJ060DV-F			UJ	U2J	6 p	±0.5pF	520	200	0.5±0.05	R
UMK105 UJ070DV-F			UJ	U2J	7 p	±0.5pF	540	200	0.5±0.05	R
UMK105 UJ080DV-F			UJ	U2J	8 p	±0.5pF	560	200	0.5±0.05	R
UMK105 UJ090DV-F			UJ	U2J	9 p	±0.5pF	580	200	0.5±0.05	R
UMK105 UJ100DV-F			UJ	U2J	10 p	±0.5pF	600	200	0.5±0.05	R
UMK105 UJ120JV-F			UJ	U2J	12 p	±5%	640	200	0.5±0.05	R
UMK105 UJ150JV-F			UJ	U2J	15 p	±5%	700	200	0.5 ± 0.05	R
UMK105 UJ180JV-F		50	UJ	U2J	18 p	±5%	760	200	0.5 ± 0.05	R
UMK105 UJ220JV-F		30	UJ	U2J	22 p	±5%	840	200	0.5 ± 0.05	R
UMK105 UJ270JV-F			UJ	U2J	27 p	±5%	940	200	0.5 ± 0.05	R
UMK105 UJ330JV-F			UJ	U2J	33 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 UJ390JV-F			UJ	U2J	39 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 UJ470JV-F			UJ	U2J	47 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 UJ560JV-F			UJ	U2J	56 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 UJ680JV-F			UJ	U2J	68 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ820JV-F			UJ	U2J	82 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ101JV-F			UJ	U2J	100 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ121JV-F			UJ	U2J	120 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ151JV-F			UJ	U2J	150 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ181JV-F]	UJ	U2J	180 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ221JV-F		1	UJ	U2J	220 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ271JV-F		1	UJ	U2J	270 p	±5%	1000	200	0.5±0.05	R
UMK105 UJ331JV-F			UJ	U2J	330 р	±5%	1000	200	0.5±0.05	R

【温度特性 SL】厚度 0.5mm (V)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1MHz) (min)	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK105 SL121JV-F			SL		120 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 SL151JV-F			SL		150 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 SL181JV-F		50	SL		180 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 SL221JV-F		30	SL		220 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 SL271JV-F			SL		270 p	±5%	1000	200	0.5 ± 0.05	R
UMK105 SL331JV-F			SL		330 p	±5%	1000	200	0.5 ± 0.05	R

[▶]由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

高频多层陶瓷电容器

●042型

【温度特性 CG: CG/C0G】厚度 0.2mm (C)

【温度特性 CG: CG/C0G】厚	度 0.2mm (C)	1								
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1GHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TVS042 CG0R2[C-W			CG	COG	0.2 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG0R3∏C-W			CG	COG	0.3 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2 ± 0.02	R
TVS042 CG0R4[C-W			CG	COG	0.4 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	300	200	0.2 ± 0.02	R
TVS042 CG0R5[]C-W			CG	COG	0.5 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	300	200	0.2 ± 0.02	R
TVS042 CG0R6∏C-W			CG	C0G	0.6 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2 ± 0.02	R
TVS042 CG0R7[]C-W			CG	C0G	0.7 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2 ± 0.02	R
TVS042 CGR75∏C-W			CG	COG	0.75 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	300	200	0.2 ± 0.02	R
TVS042 CG0R8[]C-W			CG	COG	0.8 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	300	200	0.2 ± 0.02	R
TVS042 CG0R9∏C-W			CG	COG	0.9 p	±0.05pF, ±0.1pF, ±0.25pF	300	200	0.2±0.02	R
TVS042 CG010∏C-W			CG	COG	1 p	$\pm 0.05 pF$, $\pm 0.1 pF$, $\pm 0.25 pF$	300	200	0.2±0.02	R
TVS042 CG1R1∏C-W			CG	COG	1.1 p	±0.05pF, ±0.1pF, ±0.25pF	280	200	0.2 ± 0.02	R
TVS042 CG1R2∏C-W			CG	COG	1.2 p	±0.05pF, ±0.1pF, ±0.25pF	270	200	0.2±0.02	R
TVS042 CG1R3∏C-W			CG	COG	1.3 p	±0.05pF, ±0.1pF, ±0.25pF	260	200	0.2 ± 0.02	R
TVS042 CG1R4∏C-W			CG	COG	1.4 p	±0.05pF, ±0.1pF, ±0.25pF	250	200	0.2 ± 0.02	R
TVS042 CG1R5∏C-W			CG	COG	1.5 p	±0.05pF, ±0.1pF, ±0.25pF	240	200	0.2±0.02	R
TVS042 CG1R6∏C-W			CG	COG	1.6 p	±0.05pF, ±0.1pF, ±0.25pF	230	200	0.2 ± 0.02	R
TVS042 CG1R7∏C-W			CG	COG	1.7 p	±0.05pF, ±0.1pF, ±0.25pF	220	200	0.2±0.02	R
TVS042 CG1R8 C-W			CG	COG	1.8 p	±0.05pF, ±0.1pF, ±0.25pF	210	200	0.2±0.02	R
TVS042 CG1R9 C-W			CG	COG	1.9 p	±0.05pF, ±0.1pF, ±0.25pF	200	200	0.2±0.02	R
TVS042 CG020 C-W			CG	COG	2 p	±0.05pF, ±0.1pF, ±0.25pF	190	200	0.2±0.02	R
TVS042 CG2R1 C-W			CG	COG	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	185	200	0.2±0.02	R
TVS042 CG2R2 C-W			CG	COG	2.1 p	±0.05pF, ±0.1pF, ±0.25pF	180	200	0.2±0.02	R
TVS042 CG2R2 C-W		1	CG	COG	2.2 p	± 0.05 pF, ± 0.1 pF, ± 0.25 pF	175	200	0.2±0.02	R
TVS042 CG2R3 C-W		1	CG	COG	2.3 p 2.4 p		170	200	0.2±0.02 0.2±0.02	R
TVS042 CG2R4 C-W		1	CG	COG	2.4 p 2.5 p	±0.05pF, ±0.1pF, ±0.25pF ±0.05pF, ±0.1pF, ±0.25pF	160	200	0.2±0.02 0.2±0.02	R
TVS042 CG2R6 C-W		1	CG	COG	2.5 p	± 0.05 pF, ± 0.1 pF, ± 0.25 pF ± 0.05 pF, ± 0.1 pF, ± 0.25 pF	155	200	0.2±0.02 0.2±0.02	R
TVS042 CG2R6 C-W		1	CG	COG	2.0 p	±0.05pF, ±0.1pF, ±0.25pF ±0.05pF, ±0.1pF, ±0.25pF	150	200	0.2±0.02 0.2±0.02	R
TVS042 CG2R7UC-W		1	CG	COG	2.7 p		140	200		R
		1		COG		±0.05pF, ±0.1pF, ±0.25pF		200	0.2±0.02 0.2±0.02	R
TVS042 CG2R9 C-W		1	CG	COG	2.9 p	±0.05pF, ±0.1pF, ±0.25pF	135 130	200		
TVS042 CG030[C-W			CG		3 p	±0.05pF, ±0.1pF, ±0.25pF			0.2±0.02	R
TVS042 CG3R1 C-W			CG	COG	3.1 p	±0.1pF, ±0.25pF	125	200	0.2±0.02	R
TVS042 CG3R2□C-W			CG	C0G	3.2 p	±0.1pF, ±0.25pF	125	200	0.2 ± 0.02	R
TVS042 CG3R3 C-W			CG	COG	3.3 p	±0.1pF, ±0.25pF	120	200	0.2 ± 0.02	R
TVS042 CG3R4[]C-W			CG	COG	3.4 p	±0.1pF, ±0.25pF	120	200	0.2 ± 0.02	R
TVS042 CG3R5∏C-W			CG	COG	3.5 p	±0.1pF, ±0.25pF	110	200	0.2 ± 0.02	R
TVS042 CG3R6∏C-W			CG	C0G	3.6 p	±0.1pF, ±0.25pF	110	200	0.2 ± 0.02	R
TVS042 CG3R7∏C-W			CG	C0G	3.7 p	$\pm 0.1 pF, \pm 0.25 pF$	110	200	0.2 ± 0.02	R
TVS042 CG3R8∏C-W			CG	C0G	3.8 p	$\pm 0.1 pF, \pm 0.25 pF$	100	200	0.2 ± 0.02	R
TVS042 CG3R9[C-W			CG	COG	3.9 p	±0.1pF, ±0.25pF	100	200	0.2 ± 0.02	R
TVS042 CG040∏C-W			CG	C0G	4 p	±0.1pF, ±0.25pF	90	200	0.2 ± 0.02	R
TVS042 CG4R1 C-W			CG	COG	4.1 p	±0.1pF, ±0.25pF	90	200	0.2 ± 0.02	R
TVS042 CG4R2[C-W			CG	COG	4.2 p	±0.1pF, ±0.25pF	85	200	0.2 ± 0.02	R
TVS042 CG4R3[C-W		25	CG	COG	4.3 p	±0.1pF, ±0.25pF	85	200	0.2 ± 0.02	R
TVS042 CG4R4[]C-W			CG	C0G	4.4 p	±0.1pF, ±0.25pF	85	200	0.2 ± 0.02	R
TVS042 CG4R5∏C-W			CG	COG	4.5 p	±0.1pF, ±0.25pF	85	200	0.2 ± 0.02	R
TVS042 CG4R6∏C-W			CG	COG	4.6 p	±0.1pF, ±0.25pF	85	200	0.2 ± 0.02	R
TVS042 CG4R7[]C-W			CG	COG	4.7 p	±0.1pF, ±0.25pF	85	200	0.2±0.02	R
TVS042 CG4R8∏C-W			CG	COG	4.8 p	±0.1pF, ±0.25pF	80	200	0.2±0.02	R
TVS042 CG4R9∏C-W			CG	COG	4.9 p	±0.1pF, ±0.25pF	80	200	0.2 ± 0.02	R
TVS042 CG050∏C-W			CG	COG	5 p	±0.1pF, ±0.25pF	80	200	0.2 ± 0.02	R
TVS042 CG5R1∏C-W			CG	COG	5.1 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2 ± 0.02	R
TVS042 CG5R2∏C-W			CG	COG	5.2 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2±0.02	R
TVS042 CG5R3 C-W			CG	COG	5.3 p	±0.1pF, ±0.25pF, ±0.5pF	75	200	0.2±0.02	R
TVS042 CG5R4[]C-W		1	CG	COG	5.4 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R
TVS042 CG5R5 C-W		1	CG	COG	5.5 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R
TVS042 CG5R6 C-W		1	CG	COG	5.6 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R
TVS042 CG5R0 C-W		1	CG	COG	5.0 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R
TVS042 CG5R7 C-W		1	CG	COG	5.7 p	±0.1pF, ±0.25pF, ±0.5pF	70	200	0.2±0.02	R
TVS042 CG5R9[]C-W		1	CG	COG	5.0 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG060 C-W		1	CG	COG	6 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG6R1∏C-W		1	CG	COG	6.1 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG6R1 C-W		1		COG		±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	65	200		R
		1	CG		6.2 p				0.2±0.02	
TVS042 CG6R3[]C-W		1	CG	C0G	6.3 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG6R4[]C-W		1	CG	COG	6.4 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG6R5 C-W		l	CG	COG	6.5 p	±0.1pF, ±0.25pF, ±0.5pF	65	200	0.2±0.02	R
TVS042 CG6R6 C-W		1	CG	COG	6.6 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG6R7[]C-W			CG	COG	6.7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG6R8[]C-W		1	CG	COG	6.8 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	60	200	0.2±0.02	R
TVS042 CG6R9[]C-W]	CG	C0G	6.9 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG070[C-W			CG	COG	7 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R1∏C-W			CG	C0G	7.1 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R2[]C-W			CG	C0G	7.2 p	±0.1pF, ±0.25pF, ±0.5pF	60	200	0.2±0.02	R
TVS042 CG7R3[C-W			CG	C0G	7.3 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R4[C-W			CG	C0G	7.4 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R5 C-W]	CG	COG	7.5 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R6 C-W		1	CG	COG	7.6 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R7 C-W		1	CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R8 C-W		1	CG	COG	7.7 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG7R9 C-W		1	CG	COG	7.8 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG080[C-W		1	CG	COG	7.9 p	±0.1pF, ±0.25pF, ±0.5pF	55	200	0.2±0.02	R
TVS042 CG080 C-W		1	CG	COG	8.1 p		55	200	0.2±0.02 0.2±0.02	R
TVS042 CG8R1UC-W		1				±0.1pF, ±0.25pF, ±0.5pF				R
		l	CG	C0G C0G	8.2 p 8.3 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	50 50	200	0.2±0.02 0.2±0.02	R
				1.004						
TVS042 CG8R3[]C-W										
			CG	C0G C0G	8.4 p 8.5 p	±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF ±0.1pF, ±0.25pF, ±0.5pF	50 50	200 200 200	0.2±0.02 0.2±0.02 0.2±0.02	R

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型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1GHz) (min)	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TVS042 CG8R6∏C-W			CG	COG	8.6 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2 ± 0.02	R
TVS042 CG8R7∏C-W			CG	COG	8.7 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2 ± 0.02	R
TVS042 CG8R8∏C-W			CG	COG	8.8 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2 ± 0.02	R
TVS042 CG8R9∏C-W			CG	COG	8.9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2 ± 0.02	R
TVS042 CG090[]C-W			CG	COG	9 p	±0.1pF, ±0.25pF, ±0.5pF	50	200	0.2 ± 0.02	R
TVS042 CG9R1□C-W			CG	COG	9.1 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	45	200	0.2 ± 0.02	R
TVS042 CG9R2∏C-W			CG	COG	9.2 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	45	200	0.2 ± 0.02	R
TVS042 CG9R3[C-W			CG	COG	9.3 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	45	200	0.2 ± 0.02	R
TVS042 CG9R4∏C-W			CG	COG	9.4 p	± 0.1 pF, ± 0.25 pF, ± 0.5 pF	45	200	0.2 ± 0.02	R
TVS042 CG9R5∏C-W			CG	COG	9.5 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2 ± 0.02	R
TVS042 CG9R6□C-W		25	CG	COG	9.6 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2 ± 0.02	R
TVS042 CG9R7□C-W		2.5	CG	COG	9.7 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2 ± 0.02	R
TVS042 CG9R8∏C-W			CG	COG	9.8 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2 ± 0.02	R
TVS042 CG9R9∏C-W			CG	COG	9.9 p	±0.1pF, ±0.25pF, ±0.5pF	45	200	0.2 ± 0.02	R
TVS042 CG100[]C-W			CG	COG	10 p	±2%, ±5%	45	200	0.2 ± 0.02	R
TVS042 CG110JC-W			CG	COG	11 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG120JC-W			CG	COG	12 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG130JC-W			CG	C0G	13 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG150JC-W			CG	C0G	15 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG160JC-W			CG	C0G	16 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG180JC-W			CG	C0G	18 p	±5%	40	200	0.2 ± 0.02	R
TVS042 CG220JC-W			CG	COG	22 p	±5%	30	200	0.2 ± 0.02	R

● 105型

温度特性 CG:CG/COG 】 厚度 0.5mm (W

【温度特性 CG: CG/C0G】厚度 0.5mm (W)										
		额定电压			静电容量		Q值	高温负载		焊接方式
型号1	型号2	[V]	温度	特性	[F]	静电容量允许偏差	(at 1GHz) (min)	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
EVK105 CG0R3BW-F			CG	COG	0.3 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R4BW-F			CG	COG	0.4 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R5BW-F			CG	COG	0.5 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R6BW-F			CG	COG	0.6 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R7BW-F			CG	COG	0.7 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R8BW-F			CG	COG	0.8 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG0R9BW-F			CG	COG	0.9 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG010BW-F			CG	COG	1 p	±0.1pF	300	200	0.5 ± 0.05	R
EVK105 CG1R1BW-F			CG	COG	1.1 p	±0.1pF	280	200	0.5 ± 0.05	R
EVK105 CG1R2BW-F			CG	COG	1.2 p	±0.1pF	270	200	0.5 ± 0.05	R
EVK105 CG1R3BW-F			CG	COG	1.3 p	±0.1pF	260	200	0.5 ± 0.05	R
EVK105 CG1R5BW-F			CG	COG	1.5 p	±0.1pF	240	200	0.5 ± 0.05	R
EVK105 CG1R6BW-F		16	CG	COG	1.6 p	±0.1pF	230	200	0.5 ± 0.05	R
EVK105 CG1R8BW-F			CG	COG	1.8 p	±0.1pF	210	200	0.5 ± 0.05	R
EVK105 CG020BW-F			CG	COG	2 p	±0.1pF	190	200	0.5 ± 0.05	R
EVK105 CG2R2JW-F			CG	COG	2.2 p	±5%	180	200	0.5 ± 0.05	R
EVK105 CG2R4JW-F			CG	COG	2.4 p	±5%	170	200	0.5 ± 0.05	R
EVK105 CG2R7JW-F			CG	COG	2.7 p	±5%	150	200	0.5 ± 0.05	R
EVK105 CG030JW-F			CG	COG	3 p	±5%	130	200	0.5 ± 0.05	R
EVK105 CG3R3JW-F			CG	COG	3.3 p	±5%	120	200	0.5 ± 0.05	R
EVK105 CG3R6JW-F			CG	COG	3.6 p	±5%	110	200	0.5 ± 0.05	R
EVK105 CG3R9JW-F			CG	COG	3.9 p	±5%	99	200	0.5 ± 0.05	R
EVK105 CG4R3JW-F			CG	COG	4.3 p	±5%	84	200	0.5 ± 0.05	R
EVK105 CG4R7JW-F			CG	COG	4.7 p	±5%	84	200	0.5 ± 0.05	R
EVK105 CG5R1JW-F			CG	C0G	5.1 p	±5%	84	200	0.5±0.05	R

温度特性	CG:	CG/COG]	厚度 0	.5mm (W	1)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差	Q值 (at 1GHz) (min)	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UVK105 CG0R3BW-F			CG	C0G	0.3 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R4BW-F			CG	C0G	0.4 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R5BW-F			CG	C0G	0.5 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R6BW-F			CG	C0G	0.6 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R7BW-F			CG	C0G	0.7 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R8BW-F			CG	C0G	0.8 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG0R9BW-F			CG	C0G	0.9 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG010BW-F			CG	COG	1 p	±0.1pF	300	200	0.5 ± 0.05	R
UVK105 CG1R1BW-F			CG	COG	1.1 p	±0.1pF	280	200	0.5 ± 0.05	R
UVK105 CG1R2BW-F			CG	C0G	1.2 p	±0.1pF	270	200	0.5 ± 0.05	R
UVK105 CG1R3BW-F			CG	C0G	1.3 p	±0.1pF	260	200	0.5 ± 0.05	R
UVK105 CG1R5BW-F			CG	C0G	1.5 p	±0.1pF	240	200	0.5 ± 0.05	R
UVK105 CG1R6BW-F		50	CG	C0G	1.6 p	±0.1pF	230	200	0.5 ± 0.05	R
UVK105 CG1R8BW-F			CG	C0G	1.8 p	±0.1pF	210	200	0.5 ± 0.05	R
UVK105 CG020BW-F			CG	C0G	2 p	±0.1pF	190	200	0.5 ± 0.05	R
UVK105 CG2R2JW-F			CG	C0G	2.2 p	±5%	180	200	0.5 ± 0.05	R
UVK105 CG2R4JW-F			CG	C0G	2.4 p	±5%	170	200	0.5 ± 0.05	R
UVK105 CG2R7JW-F			CG	C0G	2.7 p	±5%	150	200	0.5 ± 0.05	R
UVK105 CG030JW-F			CG	C0G	3 p	±5%	130	200	0.5 ± 0.05	R
UVK105 CG3R3JW-F			CG	C0G	3.3 p	±5%	120	200	0.5 ± 0.05	R
UVK105 CG3R6JW-F			CG	COG	3.6 p	±5%	110	200	0.5 ± 0.05	R
UVK105 CG3R9JW-F			CG	COG	3.9 p	±5%	99	200	0.5 ± 0.05	R
UVK105 CG4R3JW-F			CG	COG	4.3 p	±5%	84	200	0.5 ± 0.05	R
UVK105 CG4R7JW-F			CG	COG	4.7 p	±5%	84	200	0.5 ± 0.05	R
UVK105 CG5R1JW-F			CG	COG	5.1 p	±5%	84	200	0.5 ± 0.05	R

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超低失真多层陶瓷电容器

●105型

【温度特性 SD: Standard】厚度 0.5mm (V)

型号1	型号2	额定电压	温度特性	静电容量	静电容量允许偏差	tan δ [%]	高温负载	厚度* ³ [mm]	焊接方式 R: 回流焊
		[V]		[F]	[%]	[%]	额定电压 x %		W: 波峰焊
UMK105 SD391KV-F				390 p	±10	0.1	200	0.5 ± 0.05	R
UMK105 SD471KV-F		50		470 p	±10	0.1	200	0.5 ± 0.05	R
UMK105 SD561KV-F				560 p	±10	0.1	200	0.5 ± 0.05	R
TMK105 SD681KV-F				680 p	±10	0.1	200	0.5 ± 0.05	R
TMK105 SD821KV-F		25		820 p	±10	0.1	200	0.5 ± 0.05	R
TMK105 SD102KV-F		25		1000 p	±10	0.1	200	0.5±0.05	R
TMK105 SD122KV-F			Standard Type	1200 p	±10	0.1	200	0.5 ± 0.05	R
EMK105 SD152KV-F			Standard Type	1500 p	±10	0.1	200	0.5 ± 0.05	R
EMK105 SD182KV-F		16		1800 p	±10	0.1	200	0.5 ± 0.05	R
EMK105 SD222KV-F		10		2200 p	±10	0.1	200	0.5 ± 0.05	R
EMK105 SD272KV-F				2700 p	±10	0.1	200	0.5 ± 0.05	R
LMK105 SD332KV-F				3300 p	±10	0.1	200	0.5 ± 0.05	R
LMK105 SD392KV-F		10		3900 p	±10	0.1	200	0.5±0.05	R
LMK105 SD472KV-F				4700 p	±10	0.1	200	0.5 ± 0.05	R

【温度特性 SD: Standard】厚度 0.3mm (P)

TII C 4		额定电压		静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
LMK105 SD152KP-F		10	Ct d d T	1500 p	±10	0.1	200	0.3 ± 0.03	R
JMK105 SD272KP-F		6.3	Standard Type	2700 p	±10	0.1	200	0.3 ± 0.03	R

●107型

【温度特性 SD: Standard】厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK107 SD102KA-T				1000 p	±10	0.1	200	0.8 ± 0.10	R
UMK107 SD122KA-T				1200 p	±10	0.1	200	0.8 ± 0.10	R
UMK107 SD152KA-T				1500 p	±10	0.1	200	0.8 ± 0.10	R
UMK107 SD182KA-T		50		1800 p	±10	0.1	200	0.8 ± 0.10	R
UMK107 SD222KA-T				2200 p	±10	0.1	200	0.8 ± 0.10	R
UMK107 SD272KA-T				2700 p	±10	0.1	200	0.8±0.10	R
UMK107 SD332KA-T				3300 p	±10	0.1	200	0.8±0.10	R
TMK107 SD392KA-T		25		3900 p	±10	0.1	200	0.8±0.10	R
TMK107 SD472KA-T		23	Standard Type	4700 p	±10	0.1	200	0.8±0.10	R
EMK107 SD562KA-T				5600 p	±10	0.1	200	0.8±0.10	R
EMK107 SD682KA-T		16		6800 p	±10	0.1	200	0.8±0.10	R
EMK107 SD822KA-T		10		8200 p	±10	0.1	200	0.8±0.10	R
EMK107 SD103KA-T				0.01 μ	±10	0.1	200	0.8±0.10	R
LMK107 SD123KA-T				0.012 μ	±10	0.1	200	0.8±0.10	R
LMK107 SD153KA-T		10		0.015 μ	±10	0.1	200	0.8±0.10	R
LMK107 SD183KA-T		10		0.018 μ	±10	0.1	200	0.8±0.10	R
LMK107 SD223KA-T				0.022 μ	±10	0.1	200	0.8 ± 0.10	R

___212型

温度特性 SD: Standard】厚度 1.25mm (G)

【温度特性 SD: Standard】	厚度 1.25mm (G)								
型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
GMK212 SD183KG-T				0.018 μ	±10	0.1	200	1.25 ± 0.10	R
GMK212 SD223KG-T		35		0.022 μ	±10	0.1	200	1.25±0.10	R
GMK212 SD273KG-T			Standard Tuna	0.027 μ	±10	0.1	200	1.25±0.10	R
LMK212 SD683KG-T			Standard Type	0.068 μ	±10	0.1	200	1.25±0.10	R
LMK212 SD823KG-T		10		0.082 μ	±10	0.1	200	1.25±0.10	R
LMK212 SD104KG-T				0.1 μ	±10	0.1	200	1.25 ± 0.10	R

【温度特性 SD: Standard】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK212 SD392KD-T				3900 p	±10	0.1	200	0.85±0.10	R
UMK212 SD472KD-T				4700 p	±10	0.1	200	0.85 ± 0.10	R
UMK212 SD562KD-T		50		5600 p	±10	0.1	200	0.85 ± 0.10	R
UMK212 SD682KD-T		30		6800 p	±10	0.1	200	0.85 ± 0.10	R
UMK212 SD822KD-T			0	8200 p	±10	0.1	200	0.85 ± 0.10	R
UMK212 SD103KD-T			Standard Type	0.01 μ	±10	0.1	200	0.85 ± 0.10	R
GMK212 SD123KD-T		35		0.012 μ	±10	0.1	200	0.85 ± 0.10	R
GMK212 SD153KD-T		33		0.015 μ	±10	0.1	200	0.85 ± 0.10	R
EMK212 SD333KD-T		16		0.033 μ	±10	0.1	200	0.85 ± 0.10	R
LMK212 SD473KD-T		10		0.047 μ	±10	0.1	200	0.85 ± 0.10	R

●316型

【温度特性 SD: Standard】厚度 1.6mm (L)

LIMIX NIT OD . Standard .	/ - /2 1.011111 (L/								
		额定电压	温度特性	静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	测定电压 [V]		伊巴谷里 [F]	静电谷里允许偏差 [%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
TMK316 SD823KL-T		25	Standard Type	0.082 μ	±10	0.1	200	1.6±0.20	R
TMK316 SD104KL-T		23	Standard Type	0.1 μ	±10	0.1	200	1.6±0.20	R

[▶]由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

【温度特性 SD: Standard】厚度 1.15mm (F)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
GMK316 SD333KF-T		35		0.033 μ	±10	0.1	200	1.15±0.10	R
GMK316 SD393KF-T		30		0.039 μ	±10	0.1	200	1.15±0.10	R
TMK316 SD473KF-T			Standard Type	0.047 μ	±10	0.1	200	1.15±0.10	R
TMK316 SD563KF-T		25		0.056 μ	±10	0.1	200	1.15±0.10	R
TMK316 SD683KF-T				0.068 μ	±10	0.1	200	1.15±0.10	R

低失真大容量多层陶瓷电容器 (CF_LD)

●107型

【温度特性 LD: X5R】厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK107BLD224□A-T		50	X5R	0.22 μ	±10, ±20	10	150	0.8+0.20/-0	R
TMK107BLD474 A-T		25	X5R	0.47 μ	±10, ±20	10	150	0.8+0.20/-0	R
TMK107BLD105[]A-T		20	X5R	1 μ	±10, ±20	10	150	0.8+0.20/-0	R

●212型

【温度特性 LD: X5R】厚度 1.25mm (G)

型号1	型号2	额定电压 [V]	温度特性		静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
GMK212 LD105[]G-T		35		X5R	1 μ	±10, ±20	10	150	1.25±0.10	R
GMK212BLD225 G-T		30		X5R	2.2 μ	±10, ±20	10	150	1.25+0.20/-0	R

●316型

【温度特性 LD: X5R】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度	持性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
UMK316 LD105□L-T		50		X5R	1 μ	±10, ±20	10	150	1.6±0.20	R
GMK316BLD475□L-T		35		X5R	4.7 μ	±10, ±20	10	150	1.6±0.30	R
TMK316BLD106□L-T		25		X5R	10 μ	±10, ±20	10	150	1.6±0.30	R

●325型

【温度特性 LD: X5R 】厚度 1.9mm (N)

型号1	型号2 ^홈	额定电压	油井		静电容量	静电容量允许偏差	$ an\delta$	高温负载	「原序43 []	焊接方式
至之1	至亏2	[V]	温及	付1主	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
UMK325 LD105∏N-T		50		X5R	1 μ	±10, ±20	10	200	1.9±0.20	R

【温度特性 LD: X5R】厚度 2.5mm (M)

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型号1		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
UMK325 LD155∏M-P		50		X5R	1.5 μ	±10, ±20	5	150	2.5±0.20	R
UMK325 LD475∏M-P		30		X5R	4.7 μ	±10, ±20	10	200	2.5 ± 0.20	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

中高耐压多层陶瓷电容器

●105型

【温度特性 B7: X7R】厚度 0.5mm (V)

【温及村江 D7. 大八】子及 C	715111111 () 7									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	·厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK105 B7221 ŪV-F				X7R	220 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7331 ŪV-F				X7R	330 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7471 ŪV-F				X7R	470 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7681 □V-F				X7R	680 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7102 U-F		100		X7R	1000 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7152 U-F				X7R	1500 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7222 ŪV-F				X7R	2200 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7332 ŪV-F				X7R	3300 p	±10, ±20	2.5	200	0.5 ± 0.05	R
HMK105 B7472 U-F				X7R	4700 p	±10, ±20	2.5	200	0.5 ± 0.05	R

【温度特性 CG: CG/C0G】厚度 0.5mm (V)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	Q (at 1MHz) min	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK105 CG080DV-F			CG	COG	8 p	±0.5pF	560	200	0.5 ± 0.05	R
HMK105 CG090DV-F			CG	COG	9 p	±0.5pF	580	200	0.5 ± 0.05	R
HMK105 CG100DV-F			CG	COG	10 p	±0.5pF	600	200	0.5 ± 0.05	R
HMK105 CG120JV-F			CG	COG	12 p	±5%	640	200	0.5±0.05	R
HMK105 CG150JV-F			CG	COG	15 p	±5%	700	200	0.5±0.05	R
HMK105 CG180JV-F			CG	COG	18 p	±5%	760	200	0.5±0.05	R
HMK105 CG220JV-F			CG	COG	22 p	±5%	840	200	0.5±0.05	R
HMK105 CG240JV-F		100	CG	COG	24 p	±5%	880	200	0.5±0.05	R
HMK105 CG270JV-F		100	CG	COG	27 p	±5%	940	200	0.5±0.05	R
HMK105 CG330JV-F			CG	COG	33 p	±5%	1000	200	0.5±0.05	R
HMK105 CG390JV-F			CG	COG	39 p	±5%	1000	200	0.5±0.05	R
HMK105 CG470JV-F			CG	COG	47 p	±5%	1000	200	0.5±0.05	R
HMK105 CG560JV-F			CG	COG	56 p	±5%	1000	200	0.5±0.05	R
HMK105 CG680JV-F			CG	COG	68 p	±5%	1000	200	0.5±0.05	R
HMK105 CG820JV-F			CG	COG	82 p	±5%	1000	200	0.5 ± 0.05	R
HMK105 CG101JV-F			CG	COG	100 p	±5%	1000	200	0.5 ± 0.05	R

●107型

【温度特性 BJ: B/X5R】厚度 0.8mm (A)

【温度特性 BJ:B/X5R】厚度	₹ U.8MM (A)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK107 BJ102□A-T			В	X5R*1	1000 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ152□A-T			В	X5R*1	1500 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ222□A-T			В	X5R*1	2200 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ332□A-T			В	X5R*1	3300 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ472□A-T			В	X5R*1	4700 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ682∏A-T			В	X5R*1	6800 p	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ103∏A-T		100	В	X5R*1	0.01 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ153∏A-T			В	X5R*1	0.015 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ223∏A-T			В	X5R*1	0.022 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ333∏A-T			В	X5R*1	0.033 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ473∏A-T			В	X5R*1	0.047 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ104∏A-T			В	X5R*1	0.1 μ	±10, ±20	3.5	200	0.8±0.10	R
HMK107 BJ224□A-TE			В	X5R*1	0.22 μ	±10, ±20	3.5	150	0.8±0.10	R

【温度特性 C7: X7S 】厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK107 C7224∏A-TE		100		X7S	0.22 μ	±10, ±20	3.5	150	0.8 ± 0.10	R

【温度特性 B7: X7R】厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK107 B7102□A-T			X7R	1000 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7152□A-T			X7R	1500 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7222□A-T			X7R	2200 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7332∏A-T			X7R	3300 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7472∏A-T			X7R	4700 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7682∏A-T		100	X7R	6800 p	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7103∏A-T		100	X7R	0.01 μ	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7153∏A-T			X7R	0.015 μ	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7223∏A-T			X7R	0.022 μ	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7333∏A-T			X7R	0.033 μ	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7473∏A-T			X7R	0.047 μ	±10, ±20	3.5	200	0.8 ± 0.10	R
HMK107 B7104∏A-T			X7R	0.1 μ	±10, ±20	3.5	200	0.8±0.10	R

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【温度特性 SD: Standard】厚度 0.8mm (A)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK107 SD101KA-T				100 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD121KA-T				120 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD151KA-T				150 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD181KA-T				180 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD221KA-T				220 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD271KA-T				270 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD331KA-T		100	Standard Type	330 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD391KA-T				390 p	±10	0.1	200	0.8 ± 0.10	R
HMK107 SD471KA-T				470 p	±10	0.1	200	0.8±0.10	R
HMK107 SD561KA-T				560 p	±10	0.1	200	0.8±0.10	R
HMK107 SD681KA-T				680 p	±10	0.1	200	0.8±0.10	R
HMK107 SD821KA-T				820 p	±10	0.1	200	0.8±0.10	R
HMK107 SD102KA-T				1000 p	±10	0.1	200	0.8±0.10	R

_212型

【温度特性 BJ: B/X5R】厚度 1.25mm (G)

【/皿及付注 DJ . D/ A 3 K 】 序 B	£ 1.2311111 (G)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK212 BJ103∏G-T			В	X5R*1	0.01 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ153∏G-T			В	X5R*1	0.015 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ223∏G-T			В	X5R*1	0.022 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ333∏G-T			В	X5R*1	0.033 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ473∏G-T		100	В	X5R*1	0.047 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ683∏G-T		100	В	X5R*1	0.068 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ104∏G-T			В	X5R*1	0.1 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ224∏G-T			В	X5R*1	0.22 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 BJ474∏G-TE			В	X5R*1	0.47 μ	±10, ±20	3.5	150	1.25±0.10	R
HMK212BBJ105∏G-TE			В	X5R*1	1 μ	±10, ±20	3.5	150	1.25+0.20/-0	R
QMK212 BJ472[]G-T			В	X5R*1	4700 p	±10, ±20	2.5	150	1.25±0.10	R
QMK212 BJ682[]G-T			В	X5R*1	6800 p	±10, ±20	2.5	150	1.25±0.10	R
QMK212 BJ103[]G-T		250	В	X5R*1	0.01 μ	±10, ±20	2.5	150	1.25±0.10	R
QMK212 BJ153[]G-T			В	X5R*1	0.015 μ	±10, ±20	2.5	150	1.25±0.10	R
QMK212 BJ223 G-T			В	X5R*1	0.022 μ	±10, ±20	2.5	150	1.25±0.10	R

【温度特性 BJ: B/X5R】厚度 0.85mm (D)

刑문1	型号1 型号2 额定电压		坦由	特性	静电容量	静电容量允许偏差	tan δ	高温负载	厚度* ³ [mm]	焊接方式 R: 回流焊
±3.	± 72	[V]	/111/52	.14 IT	[F]	[%]	[%]	额定电压 x %	序及 [IIIII]	W: 波峰焊
QMK212 BJ102[]D-T			В	X5R*1	1000 p	±10, ±20	2.5	150	0.85±0.10	R
QMK212 BJ152[]D-T		250	В	X5R*1	1500 p	±10, ±20	2.5	150	0.85±0.10	R
QMK212 BJ222 D-T		230	В	X5R*1	2200 p	±10, ±20	2.5	150	0.85 ± 0.10	R
QMK212 BJ332[]D-T			В	X5R*1	3300 р	±10, ±20	2.5	150	0.85 ± 0.10	R

【温度特性 C7: X7S】厚度 1.25mm (G)

型믁1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK212 C7474 G-TE		100		X7S	0.47 μ	±10, ±20	3.5	150	1.25±0.10	R
HMK212BC7105∏G-TE		100		X7S	1 μ	±10, ±20	3.5	150	1.25+0.20/-0	R

【温度特性 B7: X7R】厚度 1.25mm (G)

【温度特性 B/:X/R 】 厚度 .	1.25mm (G)								
型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK212 B7103∏G-T			X7R	0.01 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7153∏G-T			X7R	0.015 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7223∏G-T			X7R	0.022 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7333∏G-T		100	X7R	0.033 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7473∏G-T		100	X7R	0.047 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7683∏G-T			X7R	0.068 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7104∏G-T			X7R	0.1 μ	±10, ±20	3.5	200	1.25±0.10	R
HMK212 B7224∏G-T			X7R	0.22 μ	±10, ±20	3.5	200	1.25±0.10	R
QMK212 B7472 G-T			X7R	4700 p	±10, ±20	2.5	150	1.25±0.10	R
QMK212 B7682∏G-T			X7R	6800 p	±10, ±20	2.5	150	1.25±0.10	R
QMK212 B7103[]G-T		250	X7R	0.01 μ	±10, ±20	2.5	150	1.25±0.10	R
QMK212 B7153[]G-T			X7R	0.015 μ	±10, ±20	2.5	150	1.25±0.10	R
QMK212 B7223[]G-T			X7R	0.022 μ	±10, ±20	2.5	150	1.25±0.10	R

【温度特性 B7: X7R】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度特性	静电容	量	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
QMK212 B7102 D-T			X	7R 100) p	±10, ±20	2.5	150	0.85±0.10	R
QMK212 B7152□D-T		250	X	7R 150) p	±10, ±20	2.5	150	0.85 ± 0.10	R
QMK212 B7222□D-T		230	X	7R 220) p	±10, ±20	2.5	150	0.85 ± 0.10	R
QMK212 B7332[]D-T			Х	7R 330) p	±10, ±20	2.5	150	0.85±0.10	R

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

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【温度特性	$SD \cdot St$	andard 1	85mm	(D)

T/M/X [5] I Standard		额定电压		静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
HMK212 SD222KD-T		100		2200 p	±10	0.1	200	0.85±0.10	R
HMK212 SD472KD-T		100		4700 p	±10	0.1	200	0.85 ± 0.10	R
QMK212 SD101KD-T				100 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD121KD-T				120 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD151KD-T				150 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD181KD-T				180 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD221KD-T			Standard Type	220 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD331KD-T		250	Standard Type	330 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD391KD-T		230		390 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD471KD-T				470 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD561KD-T				560 p	±10	0.1	150	0.85 ± 0.10	R
QMK212 SD681KD-T				680 p	±10	0.1	150	0.85±0.10	R
QMK212 SD821KD-T				820 p	±10	0.1	150	0.85±0.10	R
QMK212 SD102KD-T			1000 p	±10	0.1	150	0.85±0.10	R	

【温度特性 SD: Standard】厚度 1.25mm (G)

		额定电压		静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V] 温度符		[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
HMK212 SD392KG-T		100	Standard Type	3900 p	±10	0.1	200	1.25±0.10	R

●316型

【温度特性 BJ: B/X5R】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK316 BJ473□L-T			В	X5R*1	0.047 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ683□L-T			В	X5R*1	0.068 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ104□L-T			В	X5R*1	0.1 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ154□L-T			В	X5R*1	0.15 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ224□L-T		100	В	X5R*1	0.22 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ334□L-T			В	X5R*1	0.33 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ474□L-T			В	X5R*1	0.47 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 BJ105□L-T			В	X5R*1	1 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316ABJ225□L-TE			В	X5R*1	2.2 μ	±10, ±20	3.5	150	1.6±0.20	R
QMK316 BJ333[]L-T			В	X5R*1	0.033 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 BJ473[L-T		250	В	X5R*1	0.047 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 BJ683[L-T		230	В	X5R*1	0.068 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 BJ104[]L-T			В	X5R*1	0.1 μ	±10, ±20	2.5	150	1.6±0.20	R
SMK316 BJ153[L-T		630	В	X5R*1	0.015 μ	±10, ±20	2.5	120	1.6±0.20	R
SMK316 BJ223[]L-T		030	В	X5R*1	0.022 μ	±10, ±20	2.5	120	1.6±0.20	R

【温度特性 BJ: B/X5R】厚度 1.15mm (F)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
SMK316 BJ102[F-T			В	X5R*1	1000 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ152[F-T			В	X5R*1	1500 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ222[F-T			В	X5R*1	2200 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ332[F-T		630	В	X5R*1	3300 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ472[F-T			В	X5R*1	4700 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ682[F-T			В	X5R*1	6800 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 BJ103[F-T			В	X5R*1	0.01 μ	±10, ±20	2.5	120	1.15±0.10	R

【温度特性 C7: X7S】厚度 1.6mm (L)

	型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	·厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
НМІ	K316AC7225∏L-TE		100		X7S	2.2 μ	±10, ±20	3.5	150	1.6±0.20	R

【温度特性 B7: X7R】厚度 1.6mm (L)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差[%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK316 B7473[L-T			X7R	0.047 μ	±10. ±20	3.5	200	1.6±0.20	R
HMK316 B7683∏L-T			X7R	0.068 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 B7104[]L-T			X7R	0.1 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 B7154[]L-T		100	X7R	0.15 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 B7224 L-T		100	X7R	0.22 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 B7334□L-T			X7R	0.33 μ	±10, ±20	3.5	200	1.6±0.20	R
HMK316 B7474□L-T			X7R	0.47 μ	±10, ±20	3.5	200	1.6 ± 0.20	R
HMK316 B7105□L-T			X7R	1 μ	±10, ±20	3.5	200	1.6 ± 0.20	R
QMK316 B7333[L-T			X7R	0.033 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 B7473[L-T		250	X7R	0.047 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 B7683[L-T		230	X7R	0.068 μ	±10, ±20	2.5	150	1.6±0.20	R
QMK316 B7104[L-T			X7R	0.1 μ	±10, ±20	2.5	150	1.6±0.20	R
SMK316 B7153[L-T		630	X7R	0.015 μ	±10, ±20	2.5	120	1.6 ± 0.20	R
SMK316 B7223∏L-T		030	X7R	0.022 μ	±10, ±20	2.5	120	1.6±0.20	R

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【温度特性 B7: X7R】厚度 1.	15mm (F)									
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
SMK316 B7102∏F-T				X7R	q 0001	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7152∏F-T		1		X7R	1500 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7222[F-T		1		X7R	2200 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7332[]F-T		630		X7R	3300 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7472[F-T		1		X7R	4700 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7682∏F-T				X7R	6800 p	±10, ±20	2.5	120	1.15±0.10	R
SMK316 B7103[F-T		1		X7R	0.01 μ	±10, ±20	2.5	120	1.15±0.10	R
【温度特性 SD : Standard 】 厚	i度1.6mm (L)	初定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
HMK316 SD223KL-T		100	Standa	rd Type	0.022 μ	±10	0.1	200	1.6±0.20	R
QMK316 SD103KL-T		250	Stariua	ru Type	0.01 μ	±10	0.1	150	1.6±0.20	R
【温度特性 BJ : B/X5R】厚度 型号1	<u> </u>	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差[%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
					F- 3					
HMK325 BJ225∏M−P		100	В	X5R*1	2.2 μ	±10, ±20	3.5	200	2.5±0.20	R
		100 100	B B	X5R*1 X5R*1		±10, ±20 ±10, ±20	3.5 3.5	200 150	2.5±0.20 2.5±0.20	
HMK325 BJ475□M-PE 【温度特性 BJ:B/X5R】厚度 型号1	1.9mm (N) 型号2		温度	X5R*1 特性	2.2 μ 4.7 μ 静电容量 [F]	±10, ±20 静电容量允许偏差 [%]	3.5 tan δ [%]	150 高温负载 额定电压 x %	2.5±0.20 厚度* ³ [mm]	保接方式 R: 回流焊 W: 波峰焊
HMK325 BJ475□M-PE 【温度特性 BJ : B/X5R】厚度 型号1 HMK325 BJ154□N-T		100 额定电压	B 温度 B	*************************************	2.2 μ 4.7 μ 静电容量 [F]	±10, ±20 静电容量允许偏差 [%] ±10, ±20	3.5 tan δ [%] 3.5	高温负载 额定电压 x % 200	2.5±0.20 厚度* ³ [mm] 1.9±0.20	R R R 焊接方式 R: 回流焊 W: 波峰焊
HMK325 BJ475□M-PE 【温度特性 BJ : B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ224□N-T		100 额定电压	B 温度 B B	*特性 X5R*1 X5R*1 X5R*1 X5R*1	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ	±10, ±20 静电容量允许偏差 [%] ±10, ±20 ±10, ±20	3.5 tan δ [%] 3.5 3.5	高温负载 额定电压 x % 200 200	2.5±0.20 厚度* ³ [mm] 1.9±0.20 1.9±0.20	R R R 焊接方式 R: 回流焊 W: 波峰焊 R
HMK325 BJ475□M-PE 【温度特性 BJ:B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ224□N-T HMK325 BJ334□N-T		100 额定电压 [V]	B 温度 B B	*特性 X5R*1 X5R*1 X5R*1 X5R*1 X5R*1	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ	±10, ±20 静电容量允许偏差 [%] ±10, ±20 ±10, ±20 ±10, ±20	3.5 tan δ [%] 3.5 3.5 3.5 3.5	高温负载 额定电压 x % 200 200 200	2.5±0.20 厚度* ³ [mm] 1.9±0.20 1.9±0.20 1.9±0.20	R R R P: 回流焊 W: 波峰焊 R R
HMK325 BJ475□M-PE [温度特性 BJ: B/X5R]厚度 型号1 HMK325 BJ154□N-T HMK325 BJ224□N-T HMK325 BJ334□N-T HMK325 BJ474□N-T		100 额定电压	B 温度 B B B	*特性 X5R*1 X5R*1	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ	#10, ±20 静电容量允许偏差 [%] ±10, ±20 ±10, ±20 ±10, ±20 ±10, ±20	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5	高温负载 额定电压 x % 200 200 200 200	厚度* ⁵ [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R P: 回流焊 W: 波峰焊 R R R
HMK325 BJ475□M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ224□N-T HMK325 BJ341□N-T HMK325 BJ474□N-T HMK325 BJ474□N-T HMK325 BJ684□N-T		100 额定电压 [V]	B 温度 B B B B	************************************	2.2 μ 4.7 μ #θee [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ	#10, ±20 ### ### #############################	3.5 tan ô [%] 3.5 3.5 3.5 3.5 3.5 3.5	高温负载 额定电压 x % 200 200 200 200 200 200	厚度* ³ [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R PE: 回流焊 W: 波峰焊 R R R R
HMK325 BJ475 □M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ224 □N-T HMK325 BJ334 □N-T HMK325 BJ334 □N-T HMK325 BJ474 □N-T HMK325 BJ684 □N-T HMK325 BJ105 □N-T		100 额定电压 [V]	B B B B B	*特性 X5R*1 X5R*1	2.2 μ 4.7 μ #eee 1 μ 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ	±10, ±20 静电容量允许偏差 [%] ±10, ±20 ±10, ±20 ±10, ±20 ±10, ±20 ±10, ±20 ±10, ±20	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5	高温负载 额定电压 x % 200 200 200 200 200 200 200 200	厚度* ⁵ [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R:回流焊焊 W:波峰焊 R R R R
HMK325 BJ475□M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ324□N-T HMK325 BJ334□N-T HMK325 BJ334□N-T HMK325 BJ332 BJ681□N-T HMK325 BJ681□N-T HMK325 BJ105□N-T HMK325 BJ105□N-T HMK325 BJ475□N-TE		100 额定电压 [V]	B B B B B B	大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1 大ちR*1	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ	### ### ### ### ### ### ### ### ### ##	3.5 tan & [%] 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	高温负载 额定电压 x % 200 200 200 200 200 200 200 150	厚度*** [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	保 R R: 回流峰焊 W: 波峰焊 R R R R
HMK325 BJ475□M-PE [温度特性 BJ : B/X5R] 厚度 型号1 HMK325 BJ154□N-T HMK325 BJ224□N-T HMK325 BJ343□N-T HMK325 BJ474□N-T HMK325 BJ475□N-T HMK325 BJ475□N-T HMK325 BJ475□N-TE QMK325 BJ473□N-T		100 额定电压 [V]	B B B B B B B B	特性	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ 0.047 μ	#10, ±20 ### #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 3.5 2.5	高温负载 额定电压×% 200 200 200 200 200 200 150	厚度**3 [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R E 回流焊 W: 波峰焊 R R R R R
HMK325 BJ475 □M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ334 □N-T HMK325 BJ347 □N-T HMK325 BJ684 □N-T HMK325 BJ684 □N-T HMK325 BJ685 BJ473 □N-T GMK325 BJ473 □N-T GMK325 BJ473 □N-T GMK325 BJ473 □N-T		100 额定电压 [V]	B B B B B B B B B	大	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ 0.047 μ 0.1 μ	#10, ±20 ### #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20 #10, ±20	3.5 tan \$\delta\$ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 200 200 150 150	厚度** ³ [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R:回流焊 W:波峰焊 R R R R R R
HMK325 BJ475 □M-PE [温度特性 BJ: B/X5R] 厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ224 □N-T HMK325 BJ334 □N-T HMK325 BJ347 □N-T HMK325 BJ684 □N-T HMK325 BJ684 □N-T HMK325 BJ75 □N-T GMK325 BJ75 □N-TE GMK325 BJ73 □N-T GMK325 BJ104 □N-T GMK325 BJ104 □N-T GMK325 BJ104 □N-T		新定电压 [V]	B B B B B B B B B B	特性	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 1 μ 4.7 μ 0.047 μ 0.047 μ 0.047 μ	#10, ±20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 ##### #20 ##########	tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 200 150 150 150	厚度**3 [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R: 回流蝉焊 W: 波峰焊 R R R R R R R
HMK325 BJ475□M-PE 【温度特性 BJ:B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ324□N-T HMK325 BJ334□N-T HMK325 BJ334□N-T HMK325 BJ335 BJ684□N-T HMK325 BJ105□N-T HMK325 BJ475□N-TE QMK325 BJ473□N-T QMK325 BJ473□N-T QMK325 BJ154□N-T QMK325 BJ154□N-T QMK325 BJ154□N-T QMK325 BJ154□N-T		新定电压 [V]	B B B B B B B B B B B	特性	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 4.7 μ 0.047 μ 0.1 μ 0.1 μ 0.1 μ 0.1 μ	# 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20 # 10, ±20	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 150 150 150	厚度*** [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R E D D D D D D D D D D D D D D D
HMK325 BJ475 □M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ224 □N-T HMK325 BJ334 □N-T HMK325 BJ474 □N-T HMK325 BJ475 □N-T HMK325 BJ475 □N-T GMK325 BJ473 □N-T GMK325 BJ475 □N-T GMK325 BJ473 □N-T GMK325 BJ104 □N-T GMK325 BJ104 □N-T GMK325 BJ124 □N-T GMK325 BJ124 □N-T SMK325 BJ223 □N-T		100 額定电压 [V]	B B B B B B B B B B B B B	X5R*	2.2 μ 4.7 μ 4.7 μ 6.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ 0.047 μ 0.15 μ 0.15 μ 0.15 μ 0.022 μ	#10, ±20 ##0 ##0 ##0 ##0 ##0 ##0 ##0 ##0 ##0 #	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 200 150 150 150 150	厚度**3 [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R E I I I I I I I I I I I I I I I
HMK325 BJ475 □M-PE 【温度特性 BJ: B/X5R 】 厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ224 □N-T HMK325 BJ334 □N-T HMK325 BJ384 □N-T HMK325 BJ684 □N-T HMK325 BJ684 □N-T HMK325 BJ75 □N-T GMK325 BJ475 □N-T GMK325 BJ475 □N-T GMK325 BJ104 □N-T GMK325 BJ224 □N-T SMK325 BJ223 □N-T SMK325 BJ233 □N-T		新定电压 [V]	B B B B B B B B B B B B B B B B B B B	************************************	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ 0.15 μ 0.15 μ 0.15 μ 0.22 μ 0.33 μ	#10, ±20 ### #20 #### #20 #################	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 200 150 150 150 150 120	厚度** [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R:回流焊焊 W:波峰 R R R R R R R R R
HMK325 BJ475 □M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154 □N-T HMK325 BJ224 □N-T HMK325 BJ334 □N-T HMK325 BJ474 □N-T HMK325 BJ475 □N-T HMK325 BJ475 □N-T GMK325 BJ473 □N-T GMK325 BJ475 □N-T GMK325 BJ473 □N-T GMK325 BJ104 □N-T GMK325 BJ104 □N-T GMK325 BJ124 □N-T GMK325 BJ124 □N-T SMK325 BJ223 □N-T	型号2	100 額定电压 [V] 100 250 630	B B B B B B B B B B B B B	X5R*	2.2 μ 4.7 μ 静电容量 [F] 0.22 μ 0.33 μ 0.47 μ 1 μ 4.7 μ 0.047 μ 0.15 μ 0.15 μ 0.022 μ 0.033 μ	#10, ±20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 ### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 #### #20 ##########	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 200 150 150 150 150	厚度** [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R E I I I I I I I I I I I I I I I
HMK325 BJ475□M-PE 【温度特性 BJ: B/X5R】厚度 型号1 HMK325 BJ154□N-T HMK325 BJ324□N-T HMK325 BJ334□N-T HMK325 BJ334□N-T HMK325 BJ684□N-T HMK325 BJ105□N-T HMK325 BJ475□N-TE QMK325 BJ475□N-TE QMK325 BJ104□N-T QMK325 BJ154□N-T SMK325 BJ224□N-T SMK325 BJ333□N-T SMK325 BJ333□N-T SMK325 BJ333□N-T	型号2	100 額定电压 [V]	B B B B B B B B B B B B B B B B B B B	************************************	2.2 μ 4.7 μ 静电容量 [F] 0.15 μ 0.22 μ 0.33 μ 0.47 μ 0.68 μ 1 μ 4.7 μ 0.15 μ 0.15 μ 0.15 μ 0.22 μ 0.33 μ	#10, ±20 ### #20 #### #20 #################	3.5 tan δ [%] 3.5 3.5 3.5 3.5 3.5 3.5 2.5 2.5 2.5 2.5 2.5	高温负载 额定电压 x % 200 200 200 200 200 150 150 150 150 150 120 120	厚度** [mm] 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20 1.9±0.20	R R R R F: id Id Id Id Id Id Id Id Id Id Id Id Id Id

【温度特性 B7: X7R】厚度 2	【温度特性 B7: X7R】厚度 2.5mm (M)												
型号1	型号2	额定电压 [V]	温度特性										

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK325 B7225∏M-P		100		X7R	2.2 μ	±10, ±20	3.5	200	2.5±0.20	R

【温度特性 B7: X7R】厚度 1	L.9mm (N)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK325 B7154□N-T			X7R	0.15 μ	±10, ±20	3.5	200	1.9±0.20	R
HMK325 B7224□N-T			X7R	0.22 μ	±10, ±20	3.5	200	1.9±0.20	R
HMK325 B7334□N-T		100	X7R	0.33 μ	±10, ±20	3.5	200	1.9±0.20	R
HMK325 B7474□N-T		100	X7R	0.47 μ	±10, ±20	3.5	200	1.9±0.20	R
HMK325 B7684□N-T			X7R	0.68 μ	±10, ±20	3.5	200	1.9±0.20	R
HMK325 B7105□N-T			X7R	1 μ	±10, ±20	3.5	200	1.9±0.20	R
QMK325 B7473□N-T			X7R	0.047 μ	±10, ±20	2.5	150	1.9±0.20	R
QMK325 B7104□N-T		250	X7R	0.1 μ	±10, ±20	2.5	150	1.9±0.20	R
QMK325 B7154□N-T		230	X7R	0.15 μ	±10, ±20	2.5	150	1.9±0.20	R
QMK325 B7224[N-T			X7R	0.22 μ	±10, ±20	2.5	150	1.9±0.20	R
SMK325 B7223□N-T			X7R	0.022 μ	±10, ±20	2.5	120	1.9±0.20	R
SMK325 B7333∏N-T		630	X7R	0.033 μ	±10, ±20	2.5	120	1.9±0.20	R
SMK325 B7473[]N-T			X7R	0.047 μ	±10, ±20	2.5	120	1.9±0.20	R

【温度特性 C7: X7S】厚度 2.5mm (M)

		额定电压	印序杜州		静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	w [V]	温度	特性	[F]	[%]	[%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
HMK325 C7475[M-PE		100		X7S	4.7 μ	±10, ±20	3.5	150	2.5 ± 0.20	R

【温度特性 C7: X7S】厚度 1.9mm (N)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK325 C7475□N-TE		100		X7S	4.7 μ	±10, ±20	3.5	150	1.9±0.20	R

[▶]由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

【温度特性 B7: X7R】厚度 1.15 mm (F)

TI .		额定电压			静电容量	静电容量允许偏差	tan δ	高温负载		焊接方式
型号1	型号2	[V]	温度	持性	[F]	[%]	[%]	额定电压 x %	厚度*3 [mm]	R: 回流焊 W: 波峰焊
HMK325 B7104∏F-T		100		X7R	0.1 μ	±10, ±20	3.5	200	1.15±0.10	R

●432型

【温度特性 BJ: B/X5R】厚度 2.5mm (M)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
HMK432 BJ474[M-T			В	X5R*1	0.47 μ	±10, ±20	3.5	200	2.5±0.20	R
HMK432 BJ105∏M-T		100	В	X5R*1	1 μ	±10, ±20	3.5	200	2.5±0.20	R
HMK432 BJ155∏M-T		100	В	X5R*1	1.5 μ	±10, ±20	3.5	200	2.5±0.20	R
HMK432 BJ225∏M-T			В	X5R*1	2.2 μ	±10, ±20	3.5	200	2.5±0.20	R
QMK432 BJ104∏M-T			В	X5R*1	0.1 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 BJ224∏M-T		250	В	X5R*1	0.22 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 BJ334∏M-T		230	В	X5R*1	0.33 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 BJ474∏M-T			В	X5R*1	0.47 μ	±10, ±20	2.5	150	2.5±0.20	R
SMK432 BJ473[M-T			В	X5R*1	0.047 μ	±10, ±20	2.5	120	2.5±0.20	R
SMK432 BJ683[M-T		630	В	X5R*1	0.068 μ	±10, ±20	2.5	120	2.5±0.20	R
SMK432 BJ104[M-T			В	X5R*1	0.1 μ	±10, ±20	2.5	120	2.5±0.20	R

【温度特性 B7: X7R】厚度 2.5mm (M)

		***			***	章 静电容量允许偏差		高温负载		焊接方式
型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电谷重允许偏差 [%]	tan δ [%]	额定电压 x %	厚度* ³ [mm]	R: 回流焊 W: 波峰焊
HMK432 B7474[M-T				X7R	0.47 μ	±10, ±20	3.5	200	2.5±0.20	R
HMK432 B7105∏M-T		100		X7R	1 μ	±10, ±20	3.5	200	2.5 ± 0.20	R
HMK432 B7155∏M-T		100		X7R	1.5 μ	±10, ±20	3.5	200	2.5 ± 0.20	R
HMK432 B7225∏M-T				X7R	2.2 μ	±10, ±20	3.5	200	2.5 ± 0.20	R
QMK432 B7104[M-T				X7R	0.1 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 B7224∏M-T		250		X7R	0.22 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 B7334∏M-T		230		X7R	0.33 μ	±10, ±20	2.5	150	2.5±0.20	R
QMK432 B7474∏M-T				X7R	0.47 μ	±10, ±20	2.5	150	2.5±0.20	R
SMK432 B7473∏M-T				X7R	0.047 μ	±10, ±20	2.5	120	2.5±0.20	R
SMK432 B7683∏M-T		630		X7R	0.068 μ	±10, ±20	2.5	120	2.5±0.20	R
SMK432 B7104∏M-T				X7R	0.1 μ	±10, ±20	2.5	120	2.5±0.20	R

LW 逆转型多层陶瓷电容器 (LWDC™)

●105型

【温度特性 BJ: X5R】厚度 0.3mm (P)

型号1	型号2	额定电压 [V]	温度特性		静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TWK105 BJ104MP-F		25		X5R	0.1 μ	±20	5	150	0.3 ± 0.05	R
EWK105 BJ224MP-F		16		X5R	0.22 μ	±20	10	150	0.3 ± 0.05	R
LWK105 BJ474MP-F		10		X5R	0.47 μ	±20	10	150	0.3 ± 0.05	R
JWK105 BJ104MP-F				X5R*1	0.1 μ	±20	5	150	0.3 ± 0.05	R
JWK105 BJ474MP-F		6.3		X5R*1	0.47 μ	±20	10	150	0.3 ± 0.05	R
JWK105 BJ105MP-F		0.3		X5R	1 μ	±20	10	150	0.3 ± 0.05	R
JWK105 BJ225MP-F				X5R	2.2 μ	±20	10	150	0.3 ± 0.05	R

【温度特性 C6: X6S, C7: X7S】厚度 0.3mm (P)

型믁1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
EWK105 C6104MP-F		16		X6S	0.1 μ	±20	5	150	0.3 ± 0.05	R
LWK105 C7104MP-F		10		X7S	0.1 μ	±20	5	150	0.3 ± 0.05	R
LWK105 C6224MP-F		10		X6S	0.22 μ	±20	10	150	0.3 ± 0.05	R
JWK105 C7104MP-F				X7S	0.1 μ	±20	5	150	0.3 ± 0.05	R
JWK105 C7224MP-F		6.3		X7S	0.22 μ	±20	10	150	0.3 ± 0.05	R
JWK105 C6474MP-F				X6S	0.47 μ	±20	10	150	0.3 ± 0.05	R
AWK105 C6224MP-F				X6S	0.22 μ	±20	10	150	0.3 ± 0.05	R
AWK105 C6474MP-F		4		X6S	0.47 μ	±20	10	150	0.3 ± 0.05	R
AWK105 C6105MP-F		4		X6S	1 μ	±20	10	150	0.3 ± 0.05	R
AWK105 C6225MP-F				X6S	2.2 μ	±20	10	150	0.3±0.05	R

● 107型

【温度特性 BJ: X5R】厚度 0.5mm (V)

型号1	型号2	额定电压 [V]	温度特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TWK107 BJ104MV-T		25	X5R*1	0.1 μ	±20	5	150	0.5±0.05	R
EWK107 BJ224MV-T		16	X5R*1	0.22 μ	±20	5	150	0.5±0.05	R
EWK107 BJ474MV-T		10	X5R*1	0.47 μ	±20	5	150	0.5±0.05	R
LWK107 BJ105MV-T		10	X5R	1 μ	±20	10	150	0.5 ± 0.05	R
LWK107 BJ225MV-T		10	X5R	2.2 μ	±20	10	150	0.5 ± 0.05	R
JWK107 BJ105MV-T			X5R*1	1 μ	±20	10	150	0.5±0.05	R
JWK107 BJ225MV-T		6.3	X5R	2.2 μ	±20	10	150	0.5±0.05	R
JWK107 BJ475MV-T			X5R	4.7 μ	±20	10	150	0.5±0.05	R
AWK107 BJ106MV-T		4	X5R	10 μ	±20	10	150	0.5 ± 0.05	R

【温度特性 B7: X7R, C6: X6S, C7: X7S】厚度 0.5mm (V)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TWK107 B7104MV-T		25		X7R	0.1 μ	±20	5	150	0.5 ± 0.05	R
EWK107 B7224MV-T		16		X7R	0.22 μ	±20	5	150	0.5 ± 0.05	R
EWK107 B7474MV-T		10		X7R	0.47 μ	±20	5	150	0.5 ± 0.05	R
JWK107 C7105MV-T		6.3		X7S	1 μ	±20	10	150	0.5 ± 0.05	R
AWK107 C7225MV-T		4		X7S	2.2 μ	±20	10	150	0.5 ± 0.05	R
AWK107 C6475MV-T		4		X6S	4.7 μ	±20	10	150	0.5 ± 0.05	R
PWK107 C6106MV-T		2.5		X6S	10 μ	±20	10	150	0.5 ± 0.05	R

●212型

【温度特性 BJ: X5R】厚度 0.85mm (D)

型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度*³ [mm]	焊接方式 R: 回流焊 W: 波峰焊
TWK212 BJ475□D-T		25		X5R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
EWK212 BJ106MD-T		16		X5R	10 μ	±20	10	150	0.85 ± 0.10	R
LWK212 BJ475[]D-T		10		X5R	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R
LWK212 BJ106MD-T		10		X5R	10 μ	±20	10	150	0.85 ± 0.10	R
JWK212 BJ226MD-T		6.3		X5R	22 μ	±20	10	150	0.85±0.10	R

【温度特性 B7: X7R, C6: X6S】厚度 0.85mm (D)

	1 温度特性 B7: X7代 , C6: X057 存皮 0.05 min (D)											
I	型号1	型号2	额定电压 [V]	温度	特性	静电容量 [F]	静电容量允许偏差 [%]	tan δ [%]	高温负载 额定电压 x %	厚度* ³ [mm]	焊接方式 R: 回流焊 W: 波峰焊	
Т	WK212 B7225∏D-T		25		X7R	2.2 μ	±10, ±20	5	150	0.85 ± 0.10	R	
E	WK212 C6475∏D-T		16		X6S	4.7 μ	±10, ±20	10	150	0.85 ± 0.10	R	
L	WK212 C6106MD-T		10		X6S	10 μ	±20	10	150	0.85 ± 0.10	R	
Α	WK212 C6226MD-T		4		X6S	22 μ	±20	10	150	0.85 ± 0.10	R	

[▶] 由于篇幅有限,本产品目录中只记载了有代表性的产品规格,若考虑使用弊司产品时,请确认交货规格说明书中的详细规格。 另外,有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等),请参阅弊司网站(http://www.ty-top.com/)。

Multilayer Ceramic Capacitors

■PACKAGING

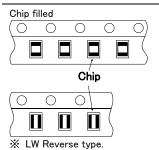
1 Minimum Quantity

Taped package				
Type(EIA)	Thick	ness	Standard o	quantity [pcs]
Type(LIA)	mm	code	Paper tape	Embossed tape
☐MK021(008004)	0.125	K	_	50000
☐MK042(01005)	0.2	C, D	_	40000
□VS042(01005)	0.2	С		40000
☐MK063(0201)	0.3	P,T	15000	_
□WK105(0204) ※	0.3	Р	10000	_
	0.13	Н	_	20000
	0.18	Е	_	15000
☐MK105(0402)	0.2	С	20000	_
	0.3	Р	15000	_
	0.5	V	10000	_
□VK105(0402)	0.5	W	10000	_
□MK107(0603)	0.45	K	4000	_
□WK107(0306) ※	0.5	V	_	4000
□MR107(0603)	0.8	Α	4000	_
□VS107(0603)	0.7	С	4000	_
□MJ107(0603)	0.8	Α	3000	3000
□MK212(0805)	0.45	K	4000	
□WK212(0508) ※	0.85	D	4000	
☐MR212(0805)	1.25	G	_	3000
□VS212(0805)	0.85	D	4000	_
ΠΜ (010/000F)	0.85	D	4000	_
□MJ212(0805)	1.25	G	_	2000
	0.85	D	4000	_
□MK316(1206) □MR316(1206)	1.15	F	_	3000
□INIK310(1200)	1.6	L	_	2000
[] M 104 0/4 000)	1.15	F	_	3000
□MJ316(1206)	1.6	L	_	2000
	0.85	D		
[] M ((((((((((((((((((1.15	F		0000
☐MK325(1210)	1.9	N	7 -	2000
□MR325(1210)	2.0max.	Υ	7	
	2.5	М	_	1000
ΠΜ (205/1010)	1.9	N	_	2000
□MJ325(1210)	2.5	М	_	500(T), 1000(P)
□MK432(1812)	2.5	М	_	500

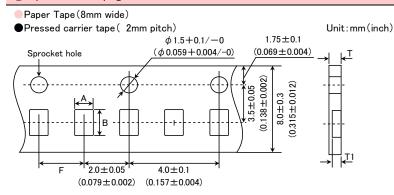
Note: X LW Reverse type.

**No bottom tape for pressed carrier tape Card board carrier tape Top tape Base tape Sprocket hole Chip cavity Base tape Chip cavity

This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).



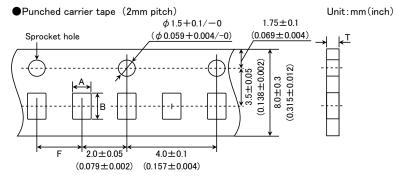
3 Representative taping dimensions



Type(EIA)	Chip	Cavity	Insertion Pitch	Tape Thickness		
Type(EIA)	Α	В	F	Т	T1	
□MK063(0201)	0.37	0.67		0.45max.	0.42max.	
□WK105(0204) ※			2.0±0.05	0.45max.	0.42max.	
☐MK105(0402) (*1 C)	0.65	1.15		0.4max.	0.3max.	
□MK105(0402) (*1 P)				0.45max.	0.42max.	

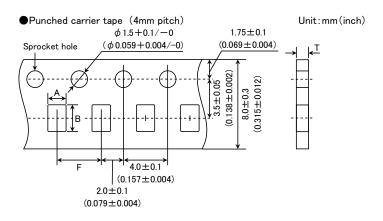
Note *1 Thickness, C:0.2mm ,P:0.3mm. * LW Reverse type.

Unit:mm



Type(EIA)	Chip (Cavity	Insertion Pitch	Tape Thickness	
	Α	В	F	Т	
□MK105 (0402) □VK105 (0402)	0.65	1.15	2.0±0.05	0.8max.	

Unit:mm



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Type(EIA)	Chip (Cavity	Insertion Pitch	Tape Thickness		
Type(EIA)	Α	В	F	Т		
□MK107(0603)						
□WK107(0306) ※	1.0	1.8		1.1max.		
☐MR107(0603)			40101			
□MK212(0805)	1.65	0.4	4.0±0.1	1.1max.		
□WK212(0508) ※	1.00	2.4				
□MK316(1206)	2.0	3.6				

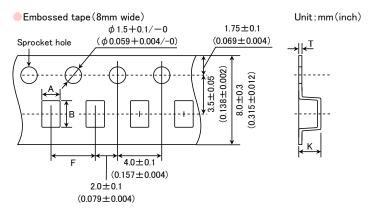
Note: Taping size might be different depending on the size of the product. 💥 LW Reverse type.

Unit:mm

Embossed tape (4mm wide)			Unit:mm(inch)
	ϕ 0.8 \pm 0.04	0.9 ± 0.05	
Sprocket hole	$(\phi 0.031 \pm 0.002)$	(0.035 ± 0.002)	<u> −الح</u>
F 1.0±0.02 (0.039±0.001) (0	2.0±0.04 .079±0.002)	(0.071±0.001) 4.0±0.05 (0.157±0.002)	K

Type(EIA)	Chip (Cavity	Insertion Pitch	Tape Thickness		
	Α	В	F	K	Т	
☐MK021(008004)	0.135	0.27				
☐MK042(01005)	0.23	0.40	1.0 ± 0.02	0.5max.	0.25max.	
□VS042(01005)	0.23	0.43				

Unit:mm



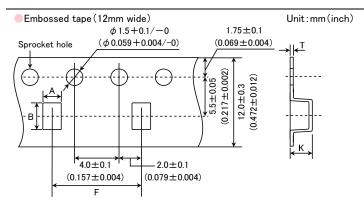
Type(EIA)	Chip (Cavity	Insertion Pitch	Tape Ti	nickness
Type(EIA)	Α	В	F	K	Т
☐MK105(0402)	0.6	1.1	2.0±0.1	0.6max	0.2±0.1
□WK107(0306) ※	1.0	1.8	4.0±0.1	1.3max.	0.25±0.1
□MK212(0805) □MR212(0805)	1.65	2.4		3.4max.	0.6max.
☐MK316(1206) ☐MR316(1206)	2.0	3.6			
☐MK325(1210) ☐MR325(1210)	2.8	3.6			

Note:

LW Reverse type.

Unit:mm

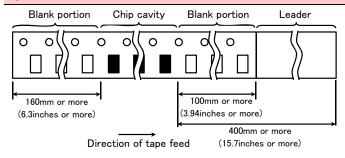
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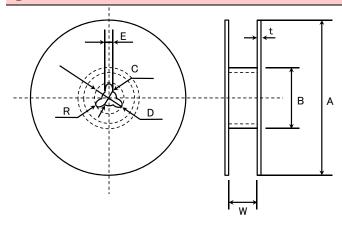
Type(EIA)	Chip (Cavity	Insertion Pitch	Tape Thickness		
	Α	В	F	K	Т	
☐MK325(1210)	3.1	4.0	8.0±0.1	4.0max.	0.6max.	
☐MK432(1812)	3.7	4.9	8.0±0.1	4.0max.	0.6max.	

Unit:mm

4 Trailer and Leader



5Reel size



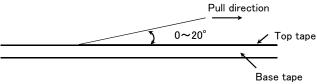
Α	В	С	D	E	R
ϕ 178 ± 2.0	<i>ф</i> 50min.	ϕ 13.0 \pm 0.2	ϕ 21.0 ± 0.8	2.0±0.5	1.0

	Т	W
4mm wide tape	1.5max.	5±1.0
8mm wide tape	2.5max.	10±1.5
12mm wide tape	2.5max.	14±1.5

Unit:mm

©Top Tape Strength

The top tape requires a peel-off force of 0.1 to 0.7N in the direction of the arrow as illustrated below.



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Multilayer Ceramic Capacitors

■RELIABILITY DATA

	Temperature	Standard						
	Compensating(Class1)	High Frequency Type	_55 to ∃	−55 to +125°C				
		3 1 3 31		Specification	Temperature Range			
				В	-25 to +85°C			
Specified			BJ	X5R	-55 to +85°C			
Value			B7	X7R	−55 to +125°C			
	High Permittivity (Class2	High Permittivity (Class2)			−55 to +105°C			
					−55 to +125°C			
					−55 to +85°C			
			Note: >	KLD Low distortion h	nigh value multilayer ceramic capa			
			•					
Storage Co	onditions							
	Temperature	Standard						
	Compensating(Class1)	High Frequency Type	-55 to +125°C					
					Temperature Range			
			BJ	В	−25 to +85°C			
Specified		High Downithinity (Close?)			−55 to +85°C			
Value	High Permittivity (Class2				−55 to +125°C			
	riigir i oriiiictivity (Olassz	,	C6	X6S	−55 to +105°C			
			C7 LD(※)	X7S X5R	−55 to +125°C			
					−55 to +85°C			
			Note: >	LD Low distortion h	nigh value multilayer ceramic capa			
5								
3. Rated Volt	1	0, 1, 1	F0\/D0_0/	TVDQ 10VDQ				
Specified	Temperature	Standard		5VDC, 16VDC				
Value	Compensating(Class1)	High Frequency Type	50VDC, 25	5VDC, 16VDC				
	High Permittivity (Class2)			5VDC, 25VDC, 16VD	C, 10VDC, 6.3VDC, 4VDC, 2.5VD0			
. Withstandi	ng Voltage (Between termina	ls)						
	Temperature	Standard						
Specified Value	Compensating(Class1)	High Frequency Type	No breakd	lown or damage				
raiue	High Permittivity (Class?	1						

Specified Value	Compensating(Class1) High Frequency Type		No breakdown or damage		
Value	High Permittivity (Class2))			
T+		Cla	ass 1	Class 2	
Test Methods and	Applied voltage	Rated v	oltage × 3	Rated voltage × 2.5	
Methods and Remarks	Duration		1 to 5 sec.		
i temai ks	Charge/discharge currer	nt	50mA max.		

5. Insulation Re	5. Insulation Resistance								
	Temperature	Standard	10000 MΩmin.						
Specified Value	Compensating(Class1)	High Frequency Type	TOOOD WESTIMI.						
	High Permittivity (Class2)) Note 1	C ≤ 0.047 μ F : 10000 M Ω min. C > 0.047 μ F : 500M Ω • μ F						
Test	Applied voltage : Rated voltage								
Methods and	Duration : 60±5 sec.								
Remarks	Charge/discharge current : 50mA max.								

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6. Capacitance (Tolerance)								
Specified	Temperature Compensating(Class1)	Standard	C U U SL	0.2pF≦C≦5pF 0.2pF≦C≦10pF C>10pF	: ±0.25pF : ±0.5pF : ±5% or ±10%			
Value		High Frequency Type	CG	0.2pF≦C≦2pF C>2pF	: ±0.1pF : ±5%			
	High Permittivity (Class2)	±10% or ±20%						
			Clas	ss 1	Class 2			
- .	Standa		d	High Frequency Type	C≦10 <i>µ</i> F	C>10 µF		
Test	Preconditioning		None		Thermal treatment (at 150°C for 1hr) Note 2			
Methods and Remarks	Measuring frequency		1MHz±10%		1kHz±10%	120±10Hz		
Remarks	Measuring voltage Nte		0.5 to 5Vrms		1±0.2Vrms	0.5±0.1Vrms		
	Bias application		None					

Specified	Temperature Compensating(Class1)		Standard	tandard $C < 30pF : Q \ge 400 + 20C$ $C \ge 30pF : Q \ge 1000$ (C:Nominal capacitance)					
Value	Compensating (Glass I)	High Frequency Type		Refer to detailed specification					
	High Permittivity (Class2) Note 1			BJ, B7, C6, C7:2.5% max.					
				Class 1		Class 2			
			Standard		High Frequency Type	C≦10 <i>µ</i> F	C>10 µF		
	Preconditioning		None		Thermal treatment (at 150°C for 1hr) Note 2				
Test	Measuring frequency		1MHz±10%		1GHz	1kHz±10%	120±10Hz		
Methods and	Measuring voltage Note 1		0.5 to 5Vrms			1±0.2Vrms	0.5±0.1Vrms		
Remarks	Bias application		None						
	High Frequency Type								
	Measuring equipment : HP4291A								
	Measuring jig : HP16192A								

8. Temperature	Characteristic (Without vo	Itage application)							
			Temperature Characteristic [ppm/°C]					Tolerance [ppm/°C]	
			C□:	0	CG			G: ±30	
Com Specified	_	Standard	U□ :	— 750	UJ. UK			J: ±120	
	Temperature		0 .	— 730 ————————————————————————————————————	00, UK		K: ±250		
	Compensating(Class1)		SL :	+350 to −100	00				
		High Frequency Type	Temperature Characte		eristic [ppm/°C]		Tolerance [ppm/°C]		
			C□:	0	CG		G: ±30		
			Specification	Capacitance	Ref	erence	T D		
Value					change	temp	erature	Temperature Range	
			BJ	В	±10%	2	20°C	−25 to +85°C	
					±15%	2	25°C	−55 to +85°C	
	High Permittivity (Class2)	B7	X7R	±15%	2	25°C	-55 to +125°C		
		C6	XS	±22%	2	25°C	-55 to +105°C		
		C7	X7S	±22%	2	25°C	-55 to +125°C		
			LD(X)	X5R	±15%	2	25°C	−55 to +85°C	
		Note:	KLD Low disto	ortion high value	multilay	er ceram	ic capacitor		
	Class 1								

Capacitance at 20° C and 85° C shall be measured in thermal equilibrium, and the temperature characteristic shall be calculated from the following equation.

$$\frac{(C_{85}-C_{20})}{C_{20}\times\Delta T}\times 10^{6}(ppm/^{\circ}C) \qquad \Delta T\!=\!65$$

Test Methods and Remarks

Capacitance at each step shall be measured in thermal equilibrium, and the temperature characteristic shall be calculated from the following equation.

Step	В	X5R, X7R, X6S, X7S				
1	Minimum operat	ting temperature				
2	20°C	25°C				
3	Maximum operating temperature					

 $(C-C_2)$ C : Capacitance in Step 1 or Step 3 × 100(%) C_2 C₂: Capacitance in Step 2

9. Deflection

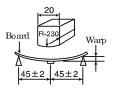
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Specified Value	Temperature Compensating(Class1)	Standard	Appearance Capacitance change	: No abnormality : Within $\pm 5\%$ or ± 0.5 pF, whichever is larger.
		High Frequency Type	Appearance Capacitance change	: No abnormality : Within±0.5 pF
	High Permittivity (Class2)		Appearance Capacitance change	: No abnormality : Within ±12.5%

Test Methods and Remarks

	Multilayer Cera	mic Capacitors		
	021, 042, 063, *105 Type The other type			
Board	Glass epoxy-resin substrate			
Thickness	0.8mm 1.6mm			
Warp	1mm			
Duration	10 sec.			

*105 Type thickness, C: 0.2mm ,P: 0.3mm.



Capacitance measurement shall be conducted with the board bent

10. Body Stren	10. Body Strength				
	Temperature	Standard			
Specified Value	Compensating(Class1)	High Frequency Type	No mechanical damage.		
Value	High Permittivity (Class2))	_		
Test Methods and Remarks	High Frequency Type Applied force : 5N Duraton : 10 sec.	Pres ← A →	R0.5 Pressing Jig Chip O.6A A		

11. Adhesive S	trength of Terminal Ele	ectrodes				
	Temperature	Standard		No terminal separation or its indication.		
Specified Value	Compensating(Class	High Frequency Typ	ne No terminal separati			
	High Permittivity (Class2)					
		Multilayer Cera	mic Capacitors	Hooked jig		
Test		021, 042, 063 Type	105 Type or more			
Methods and	Applied force	2N	5N	R=05 Board		
Remarks	Duration	30±5	sec.] The Chip /		
				Chip		

12. Solderability	/				
0 15 1	Temperature	Standard			
Specified Value	Compensating(Class1)	High Frequency Type	At least 95% of terminal electrode is covered by new solder.		
	High Permittivity (Class2))			
- .		Eutectic so	older	Lead-free solder	
Test Methods and	Solder type	H60A or H	63A	Sn-3.0Ag-0.5Cu	
Remarks	Solder temperature	230±5°	С	245±3°C	
Remarks	Duration		4±1 sec.		

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3. Resistance	to Soldering				
Specified Value	Temperature	Standard	Appearance Capacitance change Q Insulation resistance Withstanding voltage	: No abnormality : Within ±2.5% or ±0 : Initial value : Initial value (between terminals)	0.25pF, whichever is larger. : No abnormality
	Compensating(Class	High Frequency Type	Appearance Capacitance change Q Insulation resistance Withstanding voltage	: No abnormality : Within ±2.5% : Initial value : Initial value (between terminals)	: No abnormality
	High Permittivity (Class2) Note 1		Appearance Capacitance change Dissipation factor Insulation resistance Withstanding voltage	: No abnormality : Within ±7.5% : Initial value : Initial value (between terminals):	No abnormality
			Class 1		
		021, 042, 063 Type		05 Type	
	Preconditioning		None		
	Preheating	150°C, 1 to 2 min.		00°C, 2 to 5 min. 00°C, 2 to 5 min.	
	Solder temp.		270±5°C		
	Duration		3±0.5 sec.		
Test	Recovery	6 to 24 hrs	(Standard condition) N	lote 5	
Methods and Remarks				Class 2	
		021, 042, 063 Type	105, 1	07, 212 Type	316, 325, 432 Type
	Preconditioning		Thermal treatment	(at 150°C for 1 hr) No	ote 2
	Preheating	150°C, 1 to 2 min.		00°C, 2 to 5 min. 00°C, 2 to 5 min.	80 to 100°C, 5 to 10 min. 150 to 200°C, 5 to 10 min.
	Solder temp.			270±5°C	,
	Duration			±0.5 sec.	
	Recovery		21+2 brs (Star	ndard condition) Note	5

14. Temperatur	re Cycle (Thermal Shock)				
Specified Value	Temperature	Standard	Capacitance change : V Q : I Insulation resistance : I	No abnormality Nithin ±2.5% or ±0.25 nitial value nitial value petween terminals): N	· · · · · · · · · · · · · · · · · · ·
	Compensating(Class1)	High Frequency Type	Capacitance change : V Q : I Insulation resistance : I	No abnormality Nithin ±0.25pF nitial value nitial value petween terminals): N	o abnormality
	High Permittivity(Class2) Note 1	Capacitance change : W Dissipation factor : Ir Insulation resistance : Ir	No abnormality Vithin ±7.5% nitial value nitial value vetween terminals): No	o abnormality
			Class 1		Class 2
	Preconditioning		None	Thermal treatment (at 150°C for 1 hi	
Test Methods and Remarks	1 cycle	Step 1 2 3 4	Temperatur Minimum operating Normal temp Maximum operating Normal temp	g temperature perature g temperature perature	Time (min.) 30±3 2 to 3 30±3 2 to 3
	Number of cycles			times	
	Recovery	6 to 24 hrs (Star	ndard condition)Note 5	24±2 hrs (S	Standard condition)Note 5

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15. Humidity (Steady State)					
Specified Value	Temperature Compensating(Class1	Standard	Capacitance change Q	: No abnormality : Within $\pm 5\%$ or ± 0.5 pF, whichever is larger. : C < 10pF : Q \geq 200 + 10C 10 \leq C < 30pF : Q \geq 275 + 2.5C C \geq 30pF:Q \geq 350 (C:Nominal capacitance) : 1000 M Ω min.		
		High Frequency Type	Capacitance change	: No abnormality : Within $\pm 0.5 pF$, : $1000 \ M \ \Omega$ min.		
	High Permittivity (Class2) Note 1		Capacitance change Dissipation factor	: Within : 5.0% m	normality \pm 12.5% nax. $2\mu \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	
		Cla	ass 1		Class 2	
		Standard	High Frequency Type		All items	
Test	Preconditioning	N	lone		Thermal treatment (at 150°C for 1 hr) Note 2	
Methods and	Temperature	40±2°C	60±2°C		40±2°C	
Remarks	Humidity	90 to	95%RH		90 to 95%RH	
	Duration	500+2	4/-0 hrs		500+24/-0 hrs	
	Recovery	6 to 24 hrs (Stand	ard condition)Note 5		24±2 hrs (Standard condition) Note 5	

16. Humidity Lo	pading					
Specified Value	Temperature	Standard	Appearance Capacitance change Q Insulation resistance	: With : C < C≧	abnormality hin $\pm 7.5\%$ or ± 0.75 pF, whichever is larger. $(30$ pF: $Q \ge 100 + 10$ C/3 $(30$ pF: $Q \ge 200$ (C: Nominal capacitance) M Ω min.	
	Compensating (Class 1)	High Frequency Type	$\begin{array}{lll} \mbox{Appearance} & : \mbox{No abnormality} \\ \mbox{Capacitance change} & : \mbox{C} \leq 2 \mbox{pF} : \mbox{Within } \pm 0.4 \mbox{ pF} \\ \mbox{C} > 2 \mbox{pF} : \mbox{Within } \pm 0.75 \mbox{ pF} \\ \mbox{($C:$ Nominal capacitance} \\ \mbox{Insulation resistance} & : 500 \mbox{ M} \mbox{\Omega} \mbox{min.} \end{array}$		2pF:Within ±0.4 pF 2pF:Within ±0.75 pF (C:Nominal capacitance)	
	High Permittivity (Class2) Note 1		Appearance : No abnormality Capacitance change : Within $\pm 12.5\%$ Dissipation factor : 5.0% max. Insulation resistance : $25 \text{ M}\Omega\mu\text{F}$ or $500 \text{ M}\Omega$, whichever is smaller.		nin ±12.5% 6 max.	
		C	Class 1		Class 2	
		Standard	High Frequency Ty	ре	All items	
	Preconditioning	None			Voltage treatment (Rated voltage are applied for 1 hour at 40°C) Note 3	
Test	Temperature	40±2°C	60±2°C		40±2°C	
Methods and	Humidity	90 t	o 95%RH		90 to 95%RH	
Remarks	Duration	500+	24/-0 hrs		500+24/-0 hrs	
	Applied voltage	Rate	d voltage		Rated voltage	
	Charge/discharge current	50r	mA max.		50mA max.	
	Recovery	6 to 24 hrs (Stan	dard condition)Note 5		24±2 hrs(Standard condition) Note 5	

17. High Tempe	erature Loading					
	Temperature Compensating(Class1)	Appearance Capacitance change Q Insulation resistance		: C<10pF: Q≧200+10C 10≦C<30pF:Q≧275+2.5C C≧30pF: Q≧350(C:Nominal capacitance)		
Specified Value		High Frequency Type	Appearance Capacitance change Insulation resistance			
	High Permittivity (Class2) Note 1		Appearance Capacitance change Dissipation factor Insulation resistance	: 5.0% max.		
		Clas	s 1	Class 2		
		Standard F	High Frequency Type	BJ, LD(<u>*</u>) C6 B7, C7		
	Preconditioning	Nor	ne	Voltage treatment (Twice the rated voltage shall be applied for 1 hour at 85°C, 105°C or 125°C) Note 3, 4		
Test	Temperature	Maximum operatir	ng temperature	Maximum operating temperature		
Methods and	Duration	1000+48	/-0 hrs	1000+48/-0 hrs		
Remarks	Applied voltage	Rated voltage	×2 Note 4	Rated voltage × 2 Note 4		
	Charge/discharge current	50mA	max.	50mA max.		
	Recovery	6 to 24hr (Standard	condition) Note 5	24±2 hrs(Standard condition)Note 5		
			Note:	: XLD Low distortion high value multilayer ceramic capacitor		

Note 1 The figures indicate typical specifications. Please refer to individual specifications in detail.

- Note 2 Thermal treatment : Initial value shall be measured after test sample is heat-treated at $150 \pm 0/-10^{\circ}$ C for an hour and kept at room temperature for 24 ± 2 hours.
- Note 3 Voltage treatment: Initial value shall be measured after test sample is voltage-treated for an hour at both the temperature and voltage specified in the test conditions, and kept at room temperature for 24±2hours.
- Note 4 150% of rated voltage is applicable to some items. Please refer to their specifications for further information.
- Note 5 Standard condition: Temperature: 5 to 35°C, Relative humidity: 45 to 85 % RH, Air pressure: 86 to 106kPa When there are questions concerning measurement results, in order to provide correlation data, the test shall be conducted under the following condition.

Temperature: 20±2°C, Relative humidity: 60 to 70 % RH, Air pressure: 86 to 106kPa Unless otherwise specified, all the tests are conducted under the "standard condition".

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Super Low Distortion Multilayer Ceramic Capacitors

RELIABILITY DATA

1. Operating Temperature Range Specified Value -55 to +125°C 2. Storage Temperature Range

-55 to +125°C Specified Value

3. Rated Voltage

Specified Value 6.3VDC, 10VDC, 16VDC, 25VDC, 35VDC, 50VDC

4. Dielectric Withstanding Voltage (Between terminals)

Specified Value	No breakdown or damage	
Test Methods and Remarks	Applied voltage Duration Charge/discharge current	: Rated voltage × 3 : 1 to 5 sec. : 50mA max.

5. Insulation Resistance

Specified Value	10000 M Ω or 500M $\Omega\mu$ F, whi	chever is smaller		
Test Methods and Remarks	Applied voltage Duration Charge/discharge current	: Rated voltage : 60±5 sec. : 50mA max.		

6. Capacitance (Tolerance)

Specified Value	±10%	
Test Methods and Remarks	Measuring frequency Measuring voltage Bias application	: 1kHz±10% : 1±0.2Vrms : None

7. Dissipation Factor

Specified Value	0.1%max	
Test Methods and Remarks	Measuring frequency Measuring voltage Bias application	: 1kHz±10% : 1±0.2Vrms : None

8. Bending Strength

Specified Value	Appearance Capacitance change	: No abnormality : ±5%	
Test Methods and Remarks	Duration : 10 se	epoxy resin substrate	Bo and R-230 Warp
			(Unit: mm)
	Canacitance measurem	ent shall be conducted wit	h the board bent

9. Adhesive Force of Terminal Electrodes

Specified Value	Terminal electrodes shall be no exfoliation or a sign of exfoliation.		
Test Methods and Remarks	Applied force : 5N Duration : 30 ±5 seconds Hooked jig R=0.5 Board Chip		

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10. Solderability					
Specified Value	At least 95% of terminal electrode is covered by new solder.				
		Eutectic solder	Lead-free solder		
Test Methods and	Solder type	H60A or H63A	Sn-3.0Ag-0.5Cu		
Remarks	Solder temperature	230±5°C	245±3°C		
	Duration	4±1	sec.		

11. Resistance to S	Soldering Heat	
Specified Value	Capacitance change : ± Dissipation factor : Ir Insulation resistance : Ir	lo abnormality E2.5% max. nitial value nitial value etween terminals): No abnormality
Test Methods and Remarks	Solder temp. Duration Preheating conditions Measurement shall be conducted	: 270 ±5°C : 3 ±0.5 sec. : 80 to 100°C, 2 to 5 min. or 5 to 10 min. 150 to 200°C, 2 to 5 min. or 5 to 10 min. d : 24±2hrs under the standard condition Note1

12. Temperature Cy	cle (Thermal :	Shock)		
	Appearance	: No abnormality		
	Capacitance of	change : ±2.5% max		
Specified Value	Dissipation fa	ctor : Initial value	: Initial value	
	Insulation res	istance : Initial value	: Initial value	
	Withstanding	voltage (between terminals): No abnormali	ty	
	Conditions for	r 1 cycle		
	Step	temperature (°C)	Time (min.)	
T . M .!	1	Minimum operating temperature	30±3 min.	
Test Methods and Remarks	2	Normal temperature	2 to 3 min.	
Remarks	3	Maximum operating temperature	30±3 min.	
	4	Normal temperature	2 to 3 min.	
	Number of cycles: 5 times			
	Measurement	shall be conducted : 24±2hrs under the standard	condition Note1	

13. Humidity (Stea	13. Humidity (Steady state)			
Specified Value	Capacitance change : $\pm 5\%$ Dissipation factor : 0.5%			
Test Methods and Remarks	Temperature Humidity Duration Measurement shall be conducted	: $40\pm2^{\circ}\text{C}$: 90 to 95% RH : $500\ +24/-0$ hrs : $24\ \pm2$ hrs under the standard condition Note1		

14. Humidity Loadir	ng	
	Appearance :	No abnormality
Specified Value	Capacitance change :	±7.5% max
Specified value	Dissipation factor :	0.5% max
	Insulation resistance :	25M Ω μF or 500M Ω whichever is smaller
	According to JIS C 5101-1.	
	Temperature	: 40±2°C
Test Methods and	Humidity	: 90 to 95% RH
Remarks	Duration	: 500 + 24/-0 hrs
	Applied voltage	: Rated voltage
	Charge/discharge current	: 50mA max
	Measurement shall be conduct	ed : 24 ±2hrs under the standard condition Note1

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15. High Temperatu	re Loading	
Specified Value	Capacitance change : ±	abnormality 3% max 5% max
	Insulation resistance : 50	M Ω μ $\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$
	According to JIS C 5101-1.	
Test Methods and	Temperature	: Maximum operating temperature
Remarks	Duration	: 1000 + 48/-0 hrs
Remarks	Applied voltage	: Rated voltage x 2
	Charge/discharge current	: 50mA max
	Measurement shall be conducted	: 24 \pm 2hrs under the standard condition Note1

Note1 Standard condition: Temperature: 5 to 35°C, Relative humidity: 45 to 85 % RH, Air pressure: 86 to 106kPa

When there are questions concerning measurement results, in order to provide correlation data, the test shall be conducted under the following condition.

Temperature: $20\pm2^{\circ}$ C, Relative humidity: 60 to 70 % RH, Air pressure: 86 to 106kPa Unless otherwise specified, all the tests are conducted under the "standard condition".

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Medium-High Voltage Multilayer Ceramic Capacitor

■RELIABILITY DATA

1. Operating Tempe	rature Range			
. 3	Temperature Compensating(Class1)	CG : -55 to +125°C		
Specified Value	High Permittivity (Class2)	X7R, X7S : -55 to +125°C X5R : -55 to +85°C B : -25 to +85°C SD : -55 to +125°C		
2. Storage Tempera	ture Range			
	Temperature Compensating(Class1)	CG : −55 to +125°C		
Specified Value	High Permittivity(Class2)	X7R, X7S : -55 to +125°C X5R : -55 to +85°C B : -25 to +85°C SD : -55 to +125°C		
3. Rated Voltage				
	Temperature Compensating(Class1)	100VDC(HMK)		
Specified Value	High Permittivity (Class2)	100VDC(HMK), 250VDC(QMK), 630VDC(SMK)		
4. Withstanding Volt	rage (Between terminals)			
Specified Value	No breakdown or damage			
Test Methods and Remarks	Applied voltage : Rated voltage × 2.5 (HMK), Rated voltage × 2 (QMK), Rated voltage × 1.2 (SMK) Duration : 1 to 5sec. Charge/discharge current : 50mA max.			
5.1 LV: D : .				
5. Insulation Resista		10000 NO :		
Specified Value	Temperature Compensating(Class1)	10000 MΩmin.		
Test Methods and Remarks	High Permittivity (Class2) $100M \Omega$ - μ F or $10G \Omega$ whichever is smaller. Applied voltage : Rated voltage (HMK, QMK), $500V(SMK)$ Duration : $60 \pm 5 sec.$ Charge/discharge current : $50mA$ max.			
6. Capacitance (To	lerance)			
Specified Value	Temperature Compensating(Class1)	0.2pF≦C≦5pF : ±0.25pF 0.2pF≦C≦10pF : ±0.5pF C>10pF : ±5% or ±10%		
	High Permittivity (Class2)	±10%, ±20%		
Test Methods and	Temperature Compensating(Class1)	Measuring frequency : 1MHz±10% Measuring voltage : 0.5∼5Vrms Bias application : None		
Remarks High Permittivity (Class2)		Measuring frequency : 1kHz±10% Measuring voltage : 1±0.2Vrms Bias application : None		
7. Q or Dissipation	Factor			
Specified Value	Temperature Compensating(Class1)	$C < 30pF : Q \ge 400 + 20C$ $C \ge 30pF : Q \ge 1000$ (C:Nominal capacitance)		
	High Permittivity (Class2)	3.5%max(HMK),2.5%max(QMK, SMK)		
Test Methods and	Temperature Compensating(Class1)	Measuring frequency : 1MHz±10% Measuring voltage : 0.5~5Vrms Bias application : None		
Remarks	High Permittivity(Class2)	Measuring frequency : 1kHz±10% Measuring voltage : 1±0.2Vrms Bias application : None		

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8. Temperature Characteristic of Capacitance Temperature Compensating(Class1) CG $:0\pm30$ ppm/°C(-55 to +125°C) В : $\pm 10\%(-25 \text{ to } +85^{\circ}\text{C})$ X5R : $\pm 15\%(-55 \text{ to } +85^{\circ}\text{C})$ Specified Value High Permittivity (Class2) : $\pm 15\%(-55 \text{ to } + 125^{\circ}\text{C})$ X7R : $\pm 22\%(-55 \text{ to } +125^{\circ}\text{C})$ X7S - $(-55 \text{ to } +125^{\circ}\text{C})$ SD Capacitance value at each step shall be measured in thermal equilibrium, and the temperature characteristic shall be calculated from the CG, B、X5R、X7R、X7S、SD Step Minimum operating temperature

Test Methods and Remarks

2 20°C 25°C 3 Maximum operating temperature

 $(C-C_2)$ × 100 (%)

C : Capacitance value in Step 1 or Step 3

C2: Capacitance value in Step 2

 C_2

9. Deflection Appearance : No abnormality Temperature Compensating(Class1) : Within $\pm 5\%$ or ± 0.5 pF, whichever is larger. Capacitance change Specified Value Appearance : No abnormality High Permittivity (Class2) : Within ± 10% Capacitance change Warp : 1mm Duration : 10sec. Test board : Glass epoxy-resin substrate Board Thickness : 1.6mm Test Methods and Remarks (Unit: mm) Capacitance measurement shall be conducted with the board bent.

10. Adhesive Streng	10. Adhesive Strength of Terminal Electrodes				
Specified Value	Temperature Compensating(Class1)				
Specified Value	High Permittivity (Class2)	No terminal separation or its indication.			
Test Methods and Remarks	Applied force : 5N Duration : 30±5sec.	Hooked jig R=05 Chip Chip			

11. Solderability					
Specified Value	Specified Value Temperature Compensating(Class1) High Permittivity (Class2)		At least 95% of terminal electrode is covered by new solder		
Specified value			At least 95% of	new solder	
	Eutectio		c solder	Lead-free solder	
Test Methods and	Solder type	H60A or H63A		Sn-3.0Ag-0.5Cu	
Remarks	Solder temperature	230	±5°C	245±3°C	
	Duration		4±1	sec.	

		Appearance	: No abnormality
		Capacitance change	: Within $\pm 2.5\%$ or ± 0.25 pF, whichever is larger.(HMK)
0 17 1141	Temperature Compensating(Class1)	Q	: Initial value
		Insulation resistance	: Initial value
		Withstanding voltage	(between terminals): No abnormality
Specified Value		Appearance	: No abnormality
		Capacitance change	: Within $\pm 15\%$ (HMK), $\pm 10\%$ (QMK, SMK)
	High Permittivity (Class2)	Dissipation facto	: Initial value
		Insulation resistance	: Initial value
		Withstanding voltage	(between terminals): No abnormality

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	Temperature Compensating(Class1)
Preconditioning	None
Solder temperature	270±5℃
Duration	3±0.5sec.
Duals ation and ditions	80 to 100°C, 2 to 5 min.
Preheating conditions	150 to 200°C, 2 to 5min.
Recovery	24±2hrs under the standard condition Note3

Test Methods and Remarks

	High Permittivity (Class2)
Preconditioning	Thermal treatment (at 150°C for 1hr) Note1
Solder temperature	270±5°C
Duration	3±0.5sec.
Dual-action conditions	80 to 100°C, 2 to 5 min.
Preheating conditions	150 to 200°C, 2 to 5min.
Recovery	24±2hrs under the standard condition Note3

13. Temperature Cy	cle (Thermal Shock)					
Specified Value	Temperature Compen	sating(Class1)	Capacitance change Q Insulation resistance	: No abnormality : Within ±2.5% or : : Initial value : Initial value (between terminals	•	_
Specified Value	High Permittivity(Cla	ass2)	Dissipation facto	: No abnormality : Within±15%(HMH : Initial value : Initial value (between terminal		
		C	lass 1		Class 2	
	Preconditioning		None	Thermal tr	eatment (at 150°0 Note 1	C for 1 hr)
		Step	Temperatur	e(°C)	Time (min.)	
Test Methods and		1	Minimum operating		30±3	
Remarks	1 cycle	2	Normal temp	erature	2 to 3	
		3	Maximum operating	temperature	30±3	
		4	Normal temp	erature	2 to 3	
	Number of cycles		5 t	imes		
	Recovery	6 to 24 hrs (Stan	dard condition) Note 3	24±2 hrs	(Standard condition	on) Note 3

14. Humidity (Stea	dy state)			
Specified Value	Temperature Compensating(Class1) Specified Value High Permittivity (Class2)		Appearance Capacitance chang Q Insulation resistance	: C<10pF : Q≧200+10C 10≦C<30pF : Q≧275+2.5C C≧30pF:Q≧350(C:Nominal capacitance)
			Appearance Capacitance chang Dissipation factor Insulation resistance	: 7%max(HMK), 5%max(QMK, SMK).
		Class	1	Class 2
	Preconditioning	None		Thermal treatment(at 150°C for 1 hr) Note 1
Test Methods and	Temperature	40±2°	С	40±2°C
Remarks	Humidity	90 to 95%	6RH	90 to 95%RH
	Duration	500+24/-	-0 hrs	500+24/-0 hrs
	Recovery	6 to 24 hrs (Standard	condition) Note 3	24±2 hrs (Standard condition) Note 3

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15. Humidity Loadin	g					
Specified Value	Temperature Compensating(Class1)		Appearance Capacitance change Q Insulation resistance	: No abnormality : Within $\pm 7.5\%$ or ± 0.75 pF, whichever is larger (HMK). : C < 30 pF: Q $\ge 100 + 10$ C/3 C ≥ 30 pF: Q ≥ 200 (C: Nominal capacitance) : 500 M Ω min.		
	High Permittivity(Cl	ass2)	Appearance Capacitance change Dissipation factor Insulation resistance	: No abnormality : Within \pm 15% : 7%max(HMK), 5%max(QMK, SMK). : 10M $\Omega\mu$ F or 500M Ω whichever is smaller.		
	According to JIS 5101-1.					
		C	lass 1	Class 2		
	Preconditioning		None	Voltage treatment (Rated voltage are applied for 1 hour at 40°C) Note 2		
	Temperature	40)±2°C	40±2°C		
Test Methods and Remarks	Humidity	90 t	o 95%RH	90 to 95%RH		
	Duration	500+	24/-0 hrs	500+24/-0 hrs		
	Applied voltage	Rate	d voltage	Rated voltage		
	Charge/discharge current	50r	nA max.	50mA max.		
	Recovery	6 to 24 hrs (Stand	dard condition)Note 3	24±2 hrs (Standard condition) Note 3		

16. High Temperature Loading						
Specified Value	Temperature Compensating(Class1)		Appearance Capacitance char Q Insulation resista	: C < 30pF : Q ≥ 100 + 10C/3 C ≥ 30pF : Q ≥ 200 (C:Nominal capacitance)		
	High Permittivity(Cl	ass2)	Appearance Capacitance char Dissipation factor Insulation resista	: 7%max(HMK), 5%max(QMK, SMK).		
	According to JIS 5101-1.					
		Class 1		Class 2		
	Preconditioning	None		Voltage treatment Note 2		
	Temperature	Maximum operating temperature		Maximum operating temperature		
Test Methods and	Duration	1000+48/-	-0 hrs	1000+48/-0 hrs		
Remarks	Applied voltage	Rated voltage ×	(2(HMK)	Rated voltage × 2(HMK), Rated voltage × 1.5 (QMK), Rated voltage × 1.2 (SMK)		
	Charge/discharge current	50mA ma	ax.	50mA max.		
	Recovery	6 to 24hr (Standard co	ondition) Note 3	24±2 hrs (Standard condition) Note 3		

Note1 Thermal treatment : Initial value shall be measured after test sample is heat-treated at $150+0/-10^{\circ}$ C for an hour and kept at room temperature for 24 ± 2 hours.

Note2 Voltage treatment: Initial value shall be measured after test sample is voltage—treated for an hour at both the temperature and voltage specified in the test conditions, and kept at room temperature for 24±2hours.

Note3 Standard condition : Temperature: 5 to 35° C, Relative humidity: 45 to 85 % RH, Air pressure: 86 to 106kPa

When there are questions concerning measurement results, in order to provide correlation data, the test shall be conducted under the following condition.

Temperature: $20\pm2^{\circ}$ C, Relative humidity: 60 to 70 % RH, Air pressure: 86 to 106kPa Unless otherwise specified, all the tests are conducted under the "standard condition".

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Precautions on the use of Multilayer Ceramic Capacitors

PRECAUTIONS

1. Circuit Design

- ◆Verification of operating environment, electrical rating and performance
 - 1. A malfunction of equipment in fields such as medical, aerospace, nuclear control, etc. may cause serious harm to human life or have severe social ramifications.

Therefore, any capacitors to be used in such equipment may require higher safety and reliability, and shall be clearly differentiated from them used in general purpose applications.

Precautions

- ◆Operating Voltage (Verification of Rated voltage)
- 1. The operating voltage for capacitors must always be their rated voltage or less.
 - If an AC voltage is loaded on a DC voltage, the sum of the two peak voltages shall be the rated voltage or less.
 - For a circuit where an AC or a pulse voltage may be used, the sum of their peak voltages shall also be the rated voltage or less.
- 2. Even if an applied voltage is the rated voltage or less reliability of capacitors may be deteriorated in case that either a high frequency AC voltage or a pulse voltage having rapid rise time is used in a circuit.

2. PCB Design

Precautions

- ◆Pattern configurations (Design of Land-patterns)
- 1. When capacitors are mounted on PCBs, the amount of solder used (size of fillet) can directly affect the capacitor performance. Therefore, the following items must be carefully considered in the design of land patterns:
 - (1) Excessive solder applied can cause mechanical stresses which lead to chip breaking or cracking. Therefore, please consider appropriate land-patterns for proper amount of solder.
 - (2) When more than one component are jointly soldered onto the same land, each component's soldering point shall be separated by solder-resist.
- ◆Pattern configurations (Capacitor layout on PCBs)

After capacitors are mounted on boards, they can be subjected to mechanical stresses in subsequent manufacturing processes (PCB cutting, board inspection, mounting of additional parts, assembly into the chassis, wave soldering of the boards, etc.). For this reason, land pattern configurations and positions of capacitors shall be carefully considered to minimize stresses.

◆Pattern configurations (Design of Land-patterns)

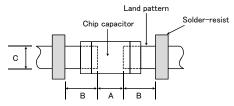
The following diagrams and tables show some examples of recommended land patterns to prevent excessive solder amounts.

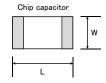
- (1) Recommended land dimensions for typical chip capacitors
- Multilayer Ceramic Capacitors : Recommended land dimensions (unit: mm)

Wave-soldering

Ту	Type 107		212	316	325
Size	L 1.6		2.0	3.2	3.2
Size	W	0.8	1.25	1.6	2.5
A	١	0.8 to 1.0	1.0 to 1.4	1.8 to 2.5	1.8 to 2.5
Е	3	0.5 to 0.8	0.8 to 1.5	0.8 to 1.7	0.8 to 1.7
С		0.6 to 0.8	0.9 to 1.2	1.2 to 1.6	1.8 to 2.5

Land patterns for PCBs





Technical considerations

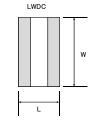
Reflow-soldering

110	Nellow Soldering									
Ту	фе	021	042	063	105	107	212	316	325	432
Size	L	0.25	0.4	0.6	1.0	1.6	2.0	3.2	3.2	4.5
Size	W	0.125	0.2	0.3	0.5	0.8	1.25	1.6	2.5	3.2
/	4	0.095~0.135	0.15~0.25	0.20~0.30	0.45~0.55	0.8~1.0	0.8~1.2	1.8~2.5	1.8~2.5	2.5~3.5
E	3	0.085~0.125	0.15~0.20	0.20~0.30	0.40~0.50	0.6~0.8	0.8~1.2	1.0~1.5	1.0~1.5	1.5~1.8
()	0.110~0.150	0.15~0.30	0.25~0.40	0.45~0.55	0.6~0.8	0.9~1.6	1.2~2.0	1.8~3.2	2.3~3.5

 $Note: Recommended \ land \ size \ might be \ different \ according \ to \ the \ allowance \ of \ the \ size \ of \ the \ product.$

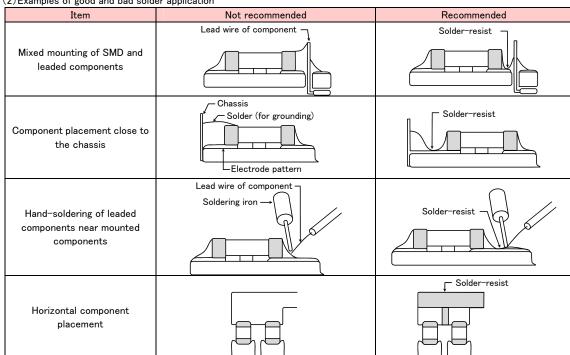
●LWDC: Recommended land dimensions for reflow-soldering (unit: mm)

Ту	Type 10		107	212
L 0.52		0.8	1.25	
Size	W	1.0	1.6	2.0
Α		0.18~0.22	0.25~0.3	0.5~0.7
В		0.2~0.25	0.3~0.4	0.4~0.5
C		0.9~1.1	1.5~1.7	1.9~2.1



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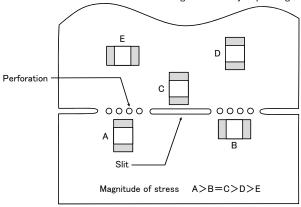
(2) Examples of good and bad solder application



- ◆Pattern configurations (Capacitor layout on PCBs)
 - 1-1. The following is examples of good and bad capacitor layouts; capacitors shall be located to minimize any possible mechanical stresses from board warp or deflection.

Items	Not recommended	Recommended
Deflection of board		Place the product at a right angle to the direction of the anticipated mechanical stress.

1-2. The amount of mechanical stresses given will vary depending on capacitor layout. Please refer to diagram below.



1-3. When PCB is split, the amount of mechanical stress on the capacitors can vary according to the method used. The following methods are listed in order from least stressful to most stressful: push-back, slit, V-grooving, and perforation. Thus, please consider the PCB, split methods as well as chip location.

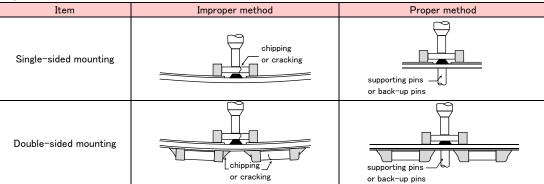
3. Mounting

- ◆Adjustment of mounting machine
 - 1. When capacitors are mounted on PCB, excessive impact load shall not be imposed on them.
 - 2. Maintenance and inspection of mounting machines shall be conducted periodically.
- ◆Selection of Adhesives Precautions
 - 1. When chips are attached on PCBs with adhesives prior to soldering, it may cause capacitor characteristics degradation unless the following factors are appropriately checked: size of land patterns, type of adhesive, amount applied, hardening temperature and hardening period. Therefore, please contact us for further information.

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◆Adjustment of mounting machine

- 1. When the bottom dead center of a pick-up nozzle is too low, excessive force is imposed on capacitors and causes damages. To avoid this, the following points shall be considerable.
 - (1) The bottom dead center of the pick-up nozzle shall be adjusted to the surface level of PCB without the board deflection.
 - (2) The pressure of nozzle shall be adjusted between 1 and 3 N static loads.
 - (3) To reduce the amount of deflection of the board caused by impact of the pick-up nozzle, supporting pins or back-up pins shall be used on the other side of the PCB. The following diagrams show some typical examples of good and bad pick-up nozzle placement:



Technical considerations

2. As the alignment pin is worn out, adjustment of the nozzle height can cause chipping or cracking of capacitors because of mechanical impact on the capacitors.

To avoid this, the monitoring of the width between the alignment pins in the stopped position, maintenance, check and replacement of the pin shall be conducted periodically.

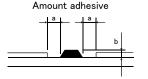
◆Selection of Adhesives

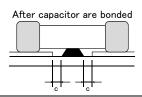
Some adhesives may cause IR deterioration. The different shrinkage percentage of between the adhesive and the capacitors may result in stresses on the capacitors and lead to cracking. Moreover, too little or too much adhesive applied to the board may adversely affect components. Therefore, the following precautions shall be noted in the application of adhesives.

- (1) Required adhesive characteristics
 - a. The adhesive shall be strong enough to hold parts on the board during the mounting & solder process.
 - b. The adhesive shall have sufficient strength at high temperatures.
 - c. The adhesive shall have good coating and thickness consistency.
 - d. The adhesive shall be used during its prescribed shelf life.
 - e. The adhesive shall harden rapidly.
 - f. The adhesive shall have corrosion resistance.
 - g. The adhesive shall have excellent insulation characteristics.
 - h. The adhesive shall have no emission of toxic gasses and no effect on the human body.
- (2) The recommended amount of adhesives is as follows;

[Recommended condition]

a 0.3mm min b 100 to 120 μm	Figure	212/316 case sizes as examples
	а	0.3mm min
A 11 1 1 1 1 1 1 1 1	b	100 to 120 μm
c Adhesives shall not contact land	С	Adhesives shall not contact land





4. Soldering

Precautions

Technical

considerations

◆Selection of Flux

Since flux may have a significant effect on the performance of capacitors, it is necessary to verify the following conditions prior to use;

- (1) Flux used shall be less than or equal to 0.1 wt% (in Cl equivalent) of halogenated content. Flux having a strong acidity content shall not be applied.
- (2) When shall capacitors are soldered on boards, the amount of flux applied shall be controlled at the optimum level.
- (3) When water-soluble flux is used, special care shall be taken to properly clean the boards.

♦Soldering

Temperature, time, amount of solder, etc. shall be set in accordance with their recommended conditions.

Sn-Zn solder paste can adversely affect MLCC reliability.

Please contact us prior to usage of Sn-Zn solder.

◆Selection of Flux

- 1-1. When too much halogenated substance (Chlorine, etc.) content is used to activate flux, or highly acidic flux is used, it may lead to corrosion of terminal electrodes or degradation of insulation resistance on the surfaces of the capacitors.
- 1-2. Flux is used to increase solderability in wave soldering. However if too much flux is applied, a large amount of flux gas may be emitted and may adversely affect the solderability. To minimize the amount of flux applied, it is recommended to use a flux-bubbling system.
- 1-3. Since the residue of water-soluble flux is easily dissolved in moisture in the air, the residues on the surfaces of capacitors in high humidity conditions may cause a degradation of insulation resistance and reliability of the capacitors. Therefore, the cleaning methods and the capability of the machines used shall also be considered carefully when water-soluble flux is used.

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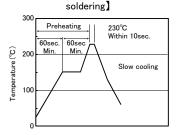
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♦Soldering

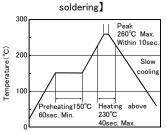
- · Ceramic chip capacitors are susceptible to thermal shock when exposed to rapid or concentrated heating or rapid cooling.
- · Therefore, the soldering must be conducted with great care so as to prevent malfunction of the components due to excessive thermal shock
- Preheating: Capacitors shall be preheated sufficiently, and the temperature difference between the capacitors and solder shall be within 130°C.
- · Cooling: The temperature difference between the capacitors and cleaning process shall not be greater than 100°C.

[Reflow soldering]

[Recommended conditions for eutectic

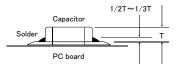


[Recommended condition for Pb-free



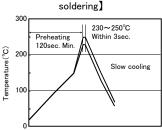
Caution

- 1The ideal condition is to have solder mass(fillet) controlled to 1/2 to 1/3 of the thickness of a capacitor.
- ②Because excessive dwell times can adversely affect solderability, soldering duration shall be kept as close to recommended times as possible. soldering for 2 times.

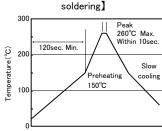


[Wave soldering]

[Recommended conditions for eutectic



[Recommended condition for Pb-free

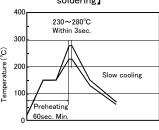


Caution

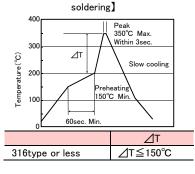
①Wave soldering must not be applied to capacitors designated as for reflow soldering only. soldering for 1 times.

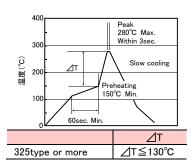
[Hand soldering]

【Recommended conditions for eutectic soldering】



[Recommended condition for Pb-free





Caution

- ①Use a 50W soldering iron with a maximum tip diameter of 1.0 mm.
- 2The soldering iron shall not directly touch capacitors. soldering for 1 times.

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5. Cleaning Cleaning conditions 1. When PCBs are cleaned after capacitors mounting, please select the appropriate cleaning solution in accordance with the intended use Precautions of the cleaning. (e.g. to remove soldering flux or other materials from the production process.) 2. Cleaning condition shall be determined after it is verified by using actual cleaning machine that the cleaning process does not affect capacitor's characteristics. 1. The use of inappropriate cleaning solutions can cause foreign substances such as flux residue to adhere to capacitors or deteriorate their outer coating, resulting in a degradation of the capacitor's electrical properties (especially insulation resistance). 2. Inappropriate cleaning conditions (insufficient or excessive cleaning) may adversely affect the performance of the capacitors. In the case of ultrasonic cleaning, too much power output can cause excessive vibration of PCBs which may lead to the cracking of Technical considerations capacitors or the soldered portion, or decrease the terminal electrodes' strength. Therefore, the following conditions shall be carefully checked: 40 kHz or less Ultrasonic output: 20 W/Q or les Ultrasonic frequency: Ultrasonic washing period: 5 min. or less

6. Resin coating and mold

Precautions

1. With some type of resins, decomposition gas or chemical reaction vapor may remain inside the resin during the hardening period or while left under normal storage conditions resulting in the deterioration of the capacitor's performance.

2. When a resin's hardening temperature is higher than capacitor's operating temperature, the stresses generated by the excessive heat may lead to damage or destruction of capacitors.

The use of such resins, molding materials etc. is not recommended.

7. Handling

◆Splitting of PCB

Precautions

1. When PCBs are split after components mounting, care shall be taken so as not to give any stresses of deflection or twisting to the board.

2. Board separation shall not be done manually, but by using the appropriate devices.

◆Mechanical considerations

Be careful not to subject capacitors to excessive mechanical shocks.

- (1) If ceramic capacitors are dropped onto a floor or a hard surface, they shall not be used.
- (2) Please be careful that the mounted components do not come in contact with or bump against other boards or components.

8. Storage conditions

1. To maintain the solderability of terminal electrodes and to keep packaging materials in good condition, care must be taken to control temperature and humidity in the storage area. Humidity should especially be kept as low as possible.

Recommended conditions

Ambient temperature : Below 30°C

Humidity: Below 70% RH

Precautions

The ambient temperature must be kept below 40°C. Even under ideal storage conditions, solderability of capacitor is deteriorated as time passes, so capacitors shall be used within 6 months from the time of delivery.

- ·Ceramic chip capacitors shall be kept where no chlorine or sulfur exists in the air.
- 2. The capacitance values of high dielectric constant capacitors will gradually decrease with the passage of time, so care shall be taken to design circuits. Even if capacitance value decreases as time passes, it will get back to the initial value by a heat treatment at 150°C for

Technical considerations

If capacitors are stored in a high temperature and humidity environment, it might rapidly cause poor solderability due to terminal oxidation and quality loss of taping/packaging materials. For this reason, capacitors shall be used within 6 months from the time of delivery. If exceeding the above period, please check solderability before using the capacitors.

**RCR-2335B(Safety Application Guide for fixed ceramic capacitors for use in electronic equipment) is published by JEITA. Please check the guide regarding precautions for deflection test, soldering by spot heat, and so on.

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