Multilayer Ceramic Capacitors (For General Electronic Equipment)

Series: **ECJ**

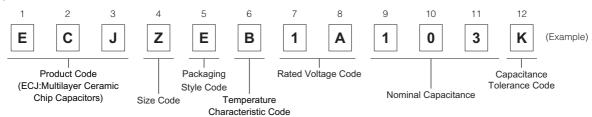


- Features
- Small size and wide capacitance range
- High humidity resistance and long life
- Excellent solderability and resistance to soldering heat
- Low inductance (ESL) and excellent frequency characteristics
- RoHS compliant

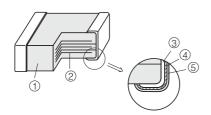
- Recommended Applications
- Class 1 (T.C. Type)
 Tuned circuits, and filter circuitry, where low loss and high stability of capacitance and high insulation resistance is required
- Class 2 (Hi-K Type)
 Coupling and By-passing

■ Handling Precautions See Page 48 to 53 ■ Packaging Specifications See Page 45, 46, 56

■ Explanation of Part Numbers

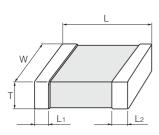


■ Construction



No		Name								
1	Ceramic dielectric									
2		Internal electrode								
3		Substrate electrode								
4	Terminal electrode	Intermediate electrode								
(5)	Cicotioac	External electrode								

■ Dimensions in mm (not to scale)



Size Code Size (EIA)		L	W	Т	L1, L2	
Z	0201	0.60±0.03	0.30±0.03	0.30±0.03	0.15±0.05	
0	0402	1.00±0.05	0.50±0.05	0.50±0.05	0.2±0.1	
1	0603	1.6±0.1	0.8±0.1	0.8±0.1	0.3±0.2	
				0.6±0.1		
2	0805	2.0 ± 0.1	1.25±0.10	0.85±0.10	0.50.005	
2	0605			1.25±0.10	0.50±0.25	
		2.00±0.15	1.25±0.15	1.25±0.15		

■ Packaging Styles and Standard Packaging Quantities

Quantity (Taping: pcs./reel)

Packaging		Size	0201	0402	0603		0805	
Style Code	Packaging	Thickness (mm) Styles	T=0.3	T=0.5	T=0.8	T=0.6	T=0.85	T=1.25
Е		Paper taping (Pitch: 2 mm)	15,000	10,000	_	_	_	
V	<i>ϕ</i> 180 reel	Paper taping (Pitch: 4 mm)	_	_	4,000	5,000	4,000	
F		Embossed taping (Pitch: 4 mm)	_	_	_	_	_	3,000

 ϕ 330 reel and bulk case type : Please contact us

■ Temperature Characteristics

Class 1

Temperature Characteristic	Temperature		Temp. Coeff.	Rate of Capacitance change at each Temperature (%) -25 °C 85 °C				
Code		Characteristics		(ppm/°C)	max.	min.	max.	min.
		≥10 pF	CG	0± 30	0.33	-0.14	0.20	-0.20
С	СД	≥4 pF	СН	0± 60	0.49	-0.27	0.39	-0.39
C	$\cup \Delta$	3 pF	CJ	0±120	0.82	-0.54	0.78	-0.78
		≦2 pF	CK	0±250	1.54	-1.13	1.63	-1.63
G	G SL		+350 to -1000	_		2.28	-6.50	

Temperature coefficient: calculated between 20 °C to 85 °C

For applicable "temperature characteristics", see the lists of standard products on page 13 to 19.

Olass 2

Temperature Characteristic Code	Temperature Characteristics	Capacitance Change	Measurement Temperature Range	Reference Temperature
	В	±10 %	−25 to 85 °C	20 °C
В	X7R	±15 %	−55 to 125 °C	25 °C
	X5R	±15 %	−55 to 85 °C	25 °C
	F	+30, -80 %	−25 to 85 °C	20 °C
	Y5V	+22, -82 %	−30 to 85 °C	25 °C

For applicable "temperature characteristics", see the lists of standard products on page 13 to 19.

■ Rated Voltage

Code	1H	1E	1C	1A	OJ
Rated Voltage	DC 50 V	DC 25 V	DC 16 V	DC 10 V	DC 6.3 V

■ Nominal Capacitance

Ex	0R5	010	100	104
Nominal Capacitance	0.5 pF	1 pF	10 pF	100,000 pF (0.1 µF)

■ Capacitance Tolerance

Class	Temp	erature Characte	ristics	Tol. Code	Capacitance Tolerance			
			C ≦ 5 pF	С	±0.25 pF			
		0	C ≦10 pF	D	±0.5 pF			
1	CΔ, SL	Capacitance range	C =10 pF	F	±1 pF			
		range	C >10 pF	J	±5 %			
			C >10 pr	K	±10 %			
		B, X7R, X5R F, Y5V			±10 %			
2					D, A/H, A3H		М	±20 %
					+80, -20 %			

■ Specifications and Testing Methods

	Specif	ication	Test Method				
Item	Class 1	Class 2	- Test Method				
Operating Temperature Range	Temp. Char. C∆ : -55 to 125 °C : -25 to 85 °C Temp. Char. SL : -55 to 125 °C	Temp. Char. B, X7R : -55 to 125 °C Temp. Char. B, X5R : -55 to 85 °C Temp. Char. F, Y5V : -30 to 85 °C					
Dielectric Withstanding Voltage	No dielectric breakdown and /		Test voltage: Class 1:Rated voltage ×300 % Class 2:Rated voltage ×250 % Duration:1 to 5 s Charge/discharge current : 50 mA max.				
Insulation Resistance (I R)	10000 M Ω or 500/C (M Ω) wh Note:100/C(M Ω)min. for DC 10 C:Nominal Cap. in μF	0 V max.	Measuring voltage:Rated voltage Duration: 60±5 s Charge/discharge current: 50 mA max.				
Capacitance	Within the specified tolerance.		Measuring temperature: 20±2 °C				
Q Factor or Dissipation Factor (tan δ)	Q:	tan δ: Temp. Char. B, X7R, X5R: 0.15 max. Temp. Char. F, Y5V: 0.2 max. Please see the technical specifications for details.	Class 1: Nominal capacitance C ≤ 1000 pF C > 1000 pF Measuring frequency 1 MHz ± 10 % 1 kHz ± 10 % Measuring voltage 0.5 to 5 Vrms 0.5 to 5 Vrms Class 2: Preconditioning: The capacitors shall be kept in temperature of 150 +0/-10 °C for 1 hour and subjected to standard condition* 48±4 hours before initial measurement.				
			Nominal capacitance C < 1 μF Measuring frequency 1 kHz ± 10 % Measuring voltage 1.0 ± 0.2 Vrms				
Temperature	Temp. Char.	Temp. Char.	Maximum capacitance change at stage 1 to 5				
Characteristics	CG: 0± 30 ppm/°C CH: 0± 60 ppm/°C CJ: 0±120 ppm/°C CK: 0±250 ppm/°C SL: +350 to -1000 ppm/°C	B : ±10 % X7R: ±15 % X5R: ±15 % F : +30, -80 % Y5V: +22, -82 %	Temp. CA, SL Char. X7R X5R Y5V 1 20 °C 25 °C 25 °C 25 °C 2 -25 °C -55 °C -55 °C -30 °C 3 (Ref. Temp.) 20 °C 25 °C 25 °C 25 °C 4 85 °C 125 °C 85 °C 85 °C 5 20 °C 25 °C 25 °C 25 °C See the technical specifications for details such as measuring voltage.				
Adhesion	Terminal electrodes shall be fr peeling.		Applied force: Size: 0201: 2 N Size: 0402 to 0805: 5N Duration: 10 s Size: 0201 to 0402 1.0 - 0.5R Sample PC board Size: 0603 to 0805				

*Standard conditions: Temperature 15 to 35 °C, Relative humidity 45 to 75 %

lto me	Specif	ication	Toot Mothod			
Item	Class 1	Class 2	Test Method			
Bending Strength	Appearance: No mechanical damage Capacitance change: Within ±5 % or ±0.5 pF whichever is larger.	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within ±12.5 % F,Y5V: within ±30 %	Bending value:1 mm Bending speed:1 mm/ 20 R340 Bending speed:1 mm/ William Unit:mm			
Vibration Proof	Appearance: No mechanical of Capacitance: within the specific Q, tan δ : Initial standard value	ied tolerance	Total amplitude: 1.5 mm Vibration frequency: 10 to 55 to 10 H for 1 min. 3 perpendicular directions for 2 hours each, a total of 6 hours			
Resistance to Soldering Heat	Appearance: No mechanical damage Capacitance change: Within ±2.5 % or ±0.25 pF whichever is larger. Otan & Initial standard value	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within ±7.5 % F, Y5V: within ±20 %	Soldering bath method Preconditioning:Heat treatment/Class Solder temperature:270±5 °C Dipping period:3.0±0.5 s Preheat condition:	2(*1)		
	Q.tan δ:Initial standard value IR:Initial standard value	tan δ :Initial standard value IR:Initial standard value	Order Temp. (°C) Size 0805 ma	aх.		
	Withstand voltage: No dielectric breakdown	Withstand voltage:	1 80 to 100 120 to 180 s 2 150 to 200 120 to 180 s			
	and/or damage	No dielectric breakdown and/or damage	Recovery (Standard condition): Class 1:24±2 h Class 2:48±4 h			
Solderability	More than 95 % of the solde electrodes should be covered		Soldering bath method Solder temperature:230±5 °C Dipping period:4±1 s Solder:H63A (JIS Z 3282)			
Temperature Cycle	Appearance: No mechanical damage Capacitance change: Within ±2.5 % or ±0.25 pF whichever is larger. Q.tan δ:Initial standard value IR:Initial standard value Withstand voltage: No dielectric breakdown and/or damage	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: within ±7.5 % F, Y5V: within ±20 % tan δ:Initial standard value IR:Initial standard value Withstand voltage: No dielectric breakdown and/or damage	Preconditioning:Heat treatment (150 °C, 1h) /Class 2 Condition of one cycle Step 1:Minimum operationing temp. 30±3 Step 2:Room temp. 3 min m Step 3:Maximum operationing temp 30±3 Step 4:Room temp. 3 min m Number of cycles:5 cycles Recovery (Standard condition) Class 1:24±2 h Class 2:48±4 h	min nax.). min nax.		
Damp Heat (Steady state)	Appearance: No mechanical damage Capacitance change: Within ± 5 % or ± 0.5 pF whichever is larger. Q: C<10 pF:Q $\ge 200+10C$ 10 pF $\le C<30$ pF:Q $\ge 275+5C/2$ 30 pF $\le C\le 1000$ pF:Q ≥ 350 tan δ : C>1000 pF:tan $\delta \le 0.004$ C:Nominal capacitance in pF IR: 1000 M Ω or 50/C (M Ω) Whichever is less. C:Nominal capacitance in μ F	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: Within ± 20 % F, Y5V: Within ± 30 % tan δ : Temp. Char. B, X7R, X5R: 0.25 max. F, Y5V: 0.3 max. IR: 1000 M Ω or 50/C (M Ω) Whichever is less. Note:10/C (M Ω) min. for DC 10 V max. C:Nominal capacitance in μ F Please see the technical specifications for details.	Preconditioning:Heat treatment/Class Temperature:40±2 °C Relative humidity:90 to 95 % Test period:500+24/0 h Recovery (Standard condition) Class 1:24±2 h Class 2:48±4 h	2**1)		

(*1) Heat treatment: 1 h of heat treatment at 150 +0/-10 °C followed by 48±4 h recovery under standard conditions.

	Specif	ication	
Item	Class 1	Class 2	Test Method
Damp Heat Load	Appearance: No mechanical damage Capacitance change: Within ± 7.5 % or ± 0.75 pF whichever is larger. Q: C<30 pF:Q \geq 100+10C/3 30 pF \leq C \leq 1000 pF:Q \geq 200 tan δ : C>1000 pF:tan δ \leq 0.004 (C:Nominal capacitance in pF) IR: 500 M Ω or 25/C (M Ω) Whichever is less. (C:Nominal capacitance in μ F)	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: Within ± 20 % F, Y5V: Within ± 30 % tan δ : Temp. Char. B, X7R, X5R: 0.25 max. F, Y5V: 0.3 max. IR: 500 M Ω or 25/C (M Ω) Whichever is less. Note:5/C (M Ω) min. for DC 10 V max. C:Nominal capacitance in μ F Please see the technical specifications for details.	Preconditioning:Voltage treatment/Class 2 ^(#2) Temperature:40±2 °C Relative humidity:90 to 95 % Applied voltage:Rated voltage Charge/discharge current: 50 mA max. Test period:500+24/0 h Recovery (Standard condition) Class 1:24±2 h Class 2:48±4 h
High Temperature Load	Appearance: No mechanical damage Capacitance change: Within ± 3 % or ± 0.3 pF whichever is larger. Q: C<10 pF:Q\ge 200+10C 10 pF\le C\le 30 pF:Q\ge 275+5C/2 30 pF\le C\le 1000 pF:Q\ge 350 tan δ : C>1000 pF:tan δ \le 0.004 C:Nominal capacitance in pF IR: 1000 M\Omega or 50/C (M\Omega) Whichever is less. C:Nominal capacitance in \mu F	Appearance: No mechanical damage Capacitance change: Temp. Char. B, X7R, X5R: Within ± 20 % F, Y5V: Within ± 30 % tan δ : Temp. Char. B, X7R, X5R: 0.25 max. F, Y5V: 0.3 max. IR: 1000 M Ω or 50/C (M Ω) Whichever is less. Note:10/C (M Ω) min. for DC 10 V max. C:Nominal capacitance in μ F Please see the technical specifications for details.	Preconditioning:Voltage treatment/Class 2 ^(*2) Temperature: Maximum operating temp. ±3 °C Applied voltage: (1) Rated voltage ×200 % (2) Rated voltage ×100 % Please see the technical specifications for details. Charge/discharge current: 50 mA max. Test period:1000+48/0 h Recovery (Standard condition) Class 1:24±2 h Class 2:48±4 h

^(*1) Heat treatment:1 h of heat treatment at 150+0/-10 °C followed by 48±4 h recovery under standard conditions (*2) Voltage treatment:1 h of voltage treatment under the specified temperature and voltage for testing followed by 48±4 h of recovery under standard conditions

- Standard Products for EIA "0201", Taped Version
- - ◆ Temperature Characteristic Code : C (Temperature Characteristics : C∆)

Rated	d voltage	D	C 2	5 V				D	C 16	6 V			
Capaci- tance	Capacitance	Part No.	Dim. T		Ter Ch			Part No.	Dim. T		Ter Ch		
(pF)	Tolerance	Tart IVO.	l. ' .	СК	CJ	СН	CG	Tart IVO.	(mm)	CK	CJ	СН	CG
0.5	±0.25 pF(C)	ECJZEC1E0R5C	0.3	0	_	_							
1		ECJZEC1E010□	0.3	0	_		_						
1.5	0.05 5 (0)	ECJZEC1E1R5□	0.3	0	_	_	_						
2	±0.25 pF (C)	ECJZEC1E020□	0.3	0	_	_	_						
3	±0.5 pF (D)	ECJZEC1E030□	0.3	_	0	_	_						
4	(-)	ECJZEC1E040□	0.3	_	_	0	_						
5		ECJZEC1E050□	0.3	_	_	0	_						
6		ECJZEC1E060D	0.3	_	_	0	_						
7	±0.5 pF (D)	ECJZEC1E070D	0.3	_	_	0	_						
8	±υ.5 μι (υ)	ECJZEC1E080D	0.3	_	_	0	_						
9		ECJZEC1E090D	0.3	_	_	0	_						
10	±0.5 pF (D) or ±1 pF (F)	ECJZEC1E100□	0.3			0	0						
12		ECJZEC1E120□	0.3	_	_	0	0						
15		ECJZEC1E150□	0.3	_	_	0	0						
18		ECJZEC1E180□	0.3	_	_	0	0						
22		ECJZEC1E220□	0.3	_	_	0	0						
27		ECJZEC1E270□	0.3	_	_	0	0						
33	±5 % (J)	ECJZEC1E330□	0.3	_	_	0	0						
39	±10 % (K)							ECJZEC1C390□	0.3	_	_	0	0
47	- /- (- /							ECJZEC1C470□	0.3		_	0	0
56								ECJZEC1C560□	0.3	_	_	0	0
68								ECJZEC1C680□	0.3	-		0	0
82								ECJZEC1C820□	0.3			0	0
100								ECJZEC1C101□	0.3			0	0

^{☐:} Capacitance tolerance code.

Standard packaging quantity of Packaging Style Code "E" (T = 0.3 mm): 15,000 pcs./reel Recommend soldering method: Reflow soldering.

Class 2 Capacitors

◆ Temperature Characteristic Code : B (Temperature Characteristics : B, X7R, X5R)

Rated	d voltage	DC	50	٧			DC	25	٧			DC	16	٧			DC	10	٧			DC	6.3	V		
Capaci- tance (pF)	Capacitance Tolerance	Part No.	Dim. T (mm)		em Cha		Part No.	Dim. T (mm)		Cha T	np. ar. RX5F	Part No.	Dim. T	C	emp har X7R)	·	Part No.	Dim. T (mm)	(emp Cha X7R	r.	Part No.	Dim. T (mm)	_ C	emp Chai X7R	r
(pi)			(11111)		Λ/Γ	ΙΛΌΠ		(111111)	Ь	^/	nivor		(11111)	Ь	Λ/ N/	ΛIJΠ		(111111)	Ь	A/n	Λυη		(11111)		Λ/N	ΛÜΠ
150		ECJZEB1H151□	0.3	0	0	_	ECJZEB1E151□	0.3		_																
220		ECJZEB1H221□	0.3	0	0	_	ECJZEB1E221□	0.3	0	С	<u> </u>															
330		ECJZEB1H331□	0.3	0	0	_	ECJZEB1E331□	0.3	0	C																
470		ECJZEB1H471□	0.3	0	0	_	ECJZEB1E471□	0.3	0	С	-															
680		ECJZEB1H681□	0.3	0	0	-	ECJZEB1E681□	0.3	0	С	- -															
1000		ECJZEB1H102□	0.3	0	0	F	ECJZEB1E102□	0.3	0	С	1—															
1500							ECJZEB1E152□	0.3	0	С	<u> </u>	ECJZEB1C152□	0.3	0	0	-										
2200							ECJZEB1E222□	0.3	0	С	<u> </u>	ECJZEB1C222□	0.3	0	0	_										_
3300	±10 % (K)											ECJZEB1C332□	0.3	0	_	0	ECJZEB1A332□	0.3	0	_	0					
4700	or																ECJZEB1A472□	0.3	_	_	0	ECJZEB0J472□	0.3	_		0
6800	±20 % (M)																ECJZEB1A682□	0.3	_	_	0	ECJZEB0J682□	0.3	<u> </u>		0
10000																	ECJZEB1A103□	0.3	_	_	0	ECJZEB0J103□	0.3			0
15000																	ECJZEB1A153□	0.3	_	_	0	ECJZEB0J153□	0.3	_		0
22000																	ECJZEB1A223□	0.3	_	_	0	ECJZEB0J223□	0.3	_		0
33000																	ECJZEB1A333□	0.3	_	_	0	ECJZEB0J333□	0.3	_		0
47000																	ECJZEB1A473□	0.3	_	_	0	ECJZEB0J473□	0.3	_		0
68000																	ECJZEB1A683□	0.3	_	_	0	ECJZEB0J683□	0.3	_		0
100000																	ECJZEB1A104□	0.3	_		0	ECJZEB0J104□	0.3	_		0
220000																						ECJZEB0J224M	0.3	_		0

 \square : Capacitance tolerance code : " \square " for "K" or "M" Standard packaging quantity of Packaging Style Code "E" (T = 0.3 mm): 15,000 pcs./reel Recommend soldering method: Reflow soldering.

- Standard Products for EIA "0402", Taped Version
- - ♦ Temperature Characteristic Code : C (Temp. Char. : CΔ)

Rated	d voltage		DC	50 V			
Capaci- tance	Capacitance	Part No.	Dim. T			np. iar.	
(pF)	Tolerance	Turt IVO.	(mm)	СК	CJ	СН	CG
0.5	±0.25 pF (C)	ECJ0EC1H0R5C	0.5	0		_	
1		ECJ0EC1H010□	0.5	0	-	_	
1.5	. 0 0F pF (C)	ECJ0EC1H1R5□	0.5	0		_	_
2	±0.25 pF (C)	ECJ0EC1H020□	0.5	0	l	_	
3	or ±0.5 pF (D)	ECJ0EC1H030□	0.5		0	_	
4	±0.5 pi (D)	ECJ0EC1H040□	0.5	-	-	0	
5		ECJ0EC1H050□	0.5	-	-	0	
6		ECJ0EC1H060D	0.5		_	0	_
7	10.5 pE/D)	ECJ0EC1H070D	0.5	l	l	0	
8	±0.5 pF(D)	ECJ0EC1H080D	0.5			0	
9		ECJ0EC1H090D	0.5	-	-	0	
10	±0.5 pF (D) or ±1 pF (F)	ECJ0EC1H100□	0.5	_	_	0	0
12		ECJ0EC1H120□	0.5	_	_	0	0
15		ECJ0EC1H150□	0.5	_	_	0	0
18		ECJ0EC1H180□	0.5	_	_	0	0
22		ECJ0EC1H220□	0.5	_	_	0	0
27		ECJ0EC1H270□	0.5	_	_	0	0
33		ECJ0EC1H330□	0.5	_	_	0	0
39	±5 % (J)	ECJ0EC1H390□	0.5	_		0	0
47		ECJ0EC1H470□	0.5	_	_	0	0
56	or ±10 % (K)	ECJ0EC1H560□	0.5			0	0
68	±10 /0 (N)	ECJ0EC1H680□	0.5	_	_	0	0
82		ECJ0EC1H820□	0.5			0	0
100		ECJ0EC1H101□	0.5			0	0
120		ECJ0EC1H121□	0.5			0	0
150		ECJ0EC1H151□	0.5			0	0
180		ECJ0EC1H181□	0.5	_		0	0
220		ECJ0EC1H221□	0.5	_	_	0	0

◆ Temperature Characteristic Code : G (Temp. Char. : SL)

Rated	d voltage	DC 50) V	
Capaci- tance	Capacitance	Part No.	Dim. T	Temp. Char.
(pF)	Tolerance	Tart No.	(mm)	SL
0.5	±0.25 pF (C)	ECJ0EG1H0R5C	0.5	0
1		ECJ0EG1H010□	0.5	0
1.5	±0.25 pF (C)	ECJ0EG1H1R5□	0.5	0
2	or (C)	ECJ0EG1H020□	0.5	0
3	±0.5 pF (D)	ECJ0EG1H030□	0.5	0
4	±0.5 pi (D)	ECJ0EG1H040□	0.5	0
5		ECJ0EG1H050□	0.5	0
6		ECJ0EG1H060D	0.5	0
7	±0.5 pF(D)	ECJ0EG1H070D	0.5	0
8	±0.5 pr(D)	ECJ0EG1H080D	0.5	0
9		ECJ0EG1H090D	0.5	0
10	±0.5 pF (D) or ±1 pF (F)	ECJ0EG1H100□	0.5	0
12		ECJ0EG1H120□	0.5	0
15		ECJ0EG1H150□	0.5	0
18		ECJ0EG1H180□	0.5	0
22		ECJ0EG1H220□	0.5	0
27		ECJ0EG1H270□	0.5	0
33		ECJ0EG1H330□	0.5	0
39	±5 % (J)	ECJ0EG1H390□	0.5	0
47	or 0r	ECJ0EG1H470□	0.5	0
56	±10 % (K)	ECJ0EG1H560□	0.5	0
68	±10 /0 (IX)	ECJ0EG1H680□	0.5	0
82		ECJ0EG1H820□	0.5	0
100		ECJ0EG1H101□	0.5	0
120		ECJ0EG1H121□	0.5	0
150		ECJ0EG1H151□	0.5	0
180		ECJ0EG1H181□	0.5	0
220		ECJ0EG1H221□	0.5	0

 \square : Capacitance tolerance code. Standard packaging quantity of Packaging Style Code "E" (T = 0.5 mm): 10,000 pcs./reel. Recommend soldering method: Reflow soldering.

- Standard Products for EIA "0402", Taped Version
- Class 2
 - ◆ Temperature Characteristic Code : B (Temperature Characteristics : B, X7R, X5R)

Rated	d voltage	DC	50	٧			DC	25	٧			DC	16	٧			DC	10	٧			DC	6.3	٧		
Capaci- tance	Capacitance	Part No.	Dim. T		em _l Cha		Part No.	Dim. T		em Cha		Part No.	Dim.		em Cha		Part No.	Dim. T		em _l Cha		Part No.	Dim.		emp har	
(pF)	Tolerance	rait No.	(mm)	В	X7R	X5R		(mm)	В	X7R	X5R	rait No.	(mm)	В	X7R	X5R		(mm)	В	X7R	X5R	rait No.	(mm)	В	X7R	X5R
100		ECJ0EB1H101□	0.5	0	0	_																				_
120		ECJ0EB1H121K	0.5	0	0	_																				
150]	ECJ0EB1H151	0.5	0	0	_																				
180		ECJ0EB1H181K	0.5	0	0	_																				
220			0.5	0	0	_																				
270		ECJ0EB1H271K	0.5	0	0	_																				
330]		0.5	0	0	_																				
390			0.5	0	0	_																				
470		ECJ0EB1H471□	0.5	0	0	_																				
560]	ECJ0EB1H561K	0.5	0	0	_																				
680]	ECJ0EB1H681□	0.5	0	0	_																				
820]	ECJ0EB1H821K	0.5	0	0	_																				
1000			0.5	_	0	_																				
1200		ECJ0EB1H122K	0.5	0	0	_																				
1500]		0.5	0	0	_																				
1800]	ECJ0EB1H182K	0.5	0	0	_																				
2200			0.5	0	0	_																				
2700		ECJ0EB1H272K	0.5	0	0	_																				
	±10 % (K)		0.5	0	0	_																				
3900	or		0.5		0	_																				
	±20 % (M)		0.5	0	0	_		0.5	0	_	_															
5600		ECJ0EB1H562K	0.5	0	0	_		0.5	0	0	_															
6800			0.5	0	0	_		0.5		_																
8200		ECJ0EB1H822K	0.5	0	0	_		0.5	0	0	┢															
10000		ECJ0EB1H103□	0.5	0	0	_	ECJ0EB1E103□	0.5	0	0	_	ECJ0EB1C103□	-	_	0	_										
12000												ECJ0EB1C123K	0.5	_	0											
15000												ECJ0EB1C153□			0									_		
18000												ECJ0EB1C183K	0.5		0											
22000	-											ECJ0EB1C223□	0.5		0	_										
27000												ECJ0EB1C273K	0.5	_	_	0		0.5	_	_	0					
33000												ECJ0EB1C333□	_	_		0		0.5	_	_	0					
39000												ECJ0EB1C393K	0.5	_		0	ECJ0EB1A393K	0.5	_	_	0					
47000												ECJ0EB1C473□	_	_		0	ECJ0EB1A473□	0.5	-	_	0					
_56000												ECJ0EB1C563K	0.5	_	_	0	ECJ0EB1A563K	0.5	_	_	0					
68000]											ECJ0EB1C683□	0.5	_		0	ECJ0EB1A683□	0.5	-	_	0					
82000]											ECJ0EB1C823K	0.5	_	_	0	ECJ0EB1A823K	0.5	_	_	0			_		
100000]												0.5	_	_	0	ECJ0EB1A104□	0.5	-	_	0			_		
220000												ECJ0EB1C224□	_	_		0	-	0.5		_		ECJ0EB0J224□	0.5			0
470000												ECJ0EB1C474□	0.5	_	_	0	ECJ0EB1A474□	0.5	<u> </u>		0	ECJ0EB0J474□	0.5	_	_	0

E: Capacitance tolerance code: "□" for "K" or "M" Standard packaging quantity of Packaging Style Code "E" (T = 0.5 mm): 10,000 pcs./reel. Recommend soldering method: Reflow soldering. For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.

◆ Temperature Characteristic Code : F (Temperature Characteristics : F, Y5V)

Rated	voltage	DC	50	٧		DC	25	V		DC	16	V		DC	: 10	V	
Capaci- tance	Capacitance	Part No.	Dim.		np. iar.	Part No.	Dim.		np. iar.	Part No.	Dim.		np. ar.	Part No.	Dim.		np. iar.
(pF)	Tolerance	Tart No.	(mm)	F	Y5V	Tarrivo.	(mm)	F	Y5V	Tait No.	(mm)	F	Y5V	Tart No.	(mm)	F	Y5V
1000		ECJ0EF1H102Z	0.5	0	0	ECJ0EF1E102Z	0.5	0	0								
2200		ECJ0EF1H222Z	0.5	0	0	ECJ0EF1E222Z	0.5	0	0								
4700		ECJ0EF1H472Z	0.5	0	0	ECJ0EF1E472Z	0.5	0	0								
10000	+80, -20%	ECJ0EF1H103Z	0.5	0	0	ECJ0EF1E103Z	0.5	0	0								
22000	(Z)					ECJ0EF1E223Z	0.5	0	0	ECJ0EF1C223Z	0.5	0	0				
47000										ECJ0EF1C473Z	0.5	0	0				
100000										ECJ0EF1C104Z	0.5	0	0				
220000								ĺ		·		ĺ		ECJ0EF1A224Z	0.5	0	0

Standard packaging quantity of Packaging Style Code "E" (T=0.5 mm): 10,000 pcs./reel. Recommend soldering method: Reflow soldering. For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.

- Standard Products for EIA "0603", Taped Version
- Class
 - ◆ Temperature Characteristic Code : C (Temp. Char. : CΔ)

Rate	d voltage		DC	50 V	-	-	
110100	a voitage			- 50 V		np.	
Capaci-	Capacitance	Dowt No.	Dim.		Ch		
tance (pF)	Tolerance	Part No.	T (mm)	СК	CJ	СН	CG
0.5	±0.25 pF (C)	ECJ1VC1H0R5C	0.8	0	_	_	_
1		ECJ1VC1H010□	0.8	0		_	
1.5	. 0 0F 2F (C)	ECJ1VC1H1R5□	0.8	0			
2	±0.25 pF (C)	ECJ1VC1H020□	0.8	0			
3	0r	ECJ1VC1H030□	0.8	_	0		
4	±0.5 pF (D)	ECJ1VC1H040□	0.8	_		0	_
5		ECJ1VC1H050□	0.8	_	_	0	
6		ECJ1VC1H060D	0.8	_		0	
7	10 5 pE (D)	ECJ1VC1H070D	0.8	_		0	
8	±0.5 pF (D)	ECJ1VC1H080D	0.8	_		0	
9		ECJ1VC1H090D	0.8	_	_	0	
10	±0.5 pF (D) or ±1 pF (F)	ECJ1VC1H100□	0.8	_	_	0	0
12		ECJ1VC1H120□	0.8	_	_	0	0
15		ECJ1VC1H150□	0.8	_	_	0	0
18	•	ECJ1VC1H180□	0.8	_	_	0	0
22	•	ECJ1VC1H220□	0.8	_	_	0	0
27		ECJ1VC1H270□	0.8	_		0	0
33		ECJ1VC1H330□	0.8	_	_	0	0
39	•	ECJ1VC1H390□	0.8	_	_	0	0
47		ECJ1VC1H470□	0.8	_	_	0	0
56		ECJ1VC1H560□	0.8	_		0	0
68		ECJ1VC1H680□	0.8	_	_	0	0
82	. E 0/ / I\	ECJ1VC1H820□	0.8	_	_	0	0
100	±5 % (J)	ECJ1VC1H101□	0.8	_	_	0	0
120	Or . 10. 0/ (I/)	ECJ1VC1H121□	0.8	_	_	0	0
150	±10 % (K)	ECJ1VC1H151□	0.8	_	_	0	0
180		ECJ1VC1H181□	0.8	_	_	0	0
220		ECJ1VC1H221□	0.8	_	_	0	0
270		ECJ1VC1H271□	0.8	_	_	0	0
330		ECJ1VC1H331□	0.8	_	_	0	0
390		ECJ1VC1H391□	0.8	_	_	0	0
470		ECJ1VC1H471□	0.8	_	_	0	0
560		ECJ1VC1H561□	0.8	_	_	0	0
680	•	ECJ1VC1H681□	0.8	_	_	0	0
820		ECJ1VC1H821□	0.8	_	_	0	0

◆ Temperature Characteristic Code : G (Temp. Char. : SL)

Rated	d voltage	DC 50) V	
Capaci-			Dim.	Temp.
tance	Capacitance Tolerance	Part No.	T	Char.
(pF)	1010141100		(mm)	SL
0.5	±0.25 pF (C)	ECJ1VG1H0R5C	0.8	0
1		ECJ1VG1H010□	0.8	0
1.5	±0.25 pF (C)	ECJ1VG1H1R5□	0.8	0
2	or (C)	ECJ1VG1H020□	0.8	0
3	±0.5 pF (D)	ECJ1VG1H030□	0.8	0
4	±υ.5 μι (Δ)	ECJ1VG1H040□	0.8	0
5		ECJ1VG1H050□	0.8	0
6		ECJ1VG1H060D	0.8	0
7	. 0 5 5 (D)	ECJ1VG1H070D	0.8	0
8	±0.5 pF (D)	ECJ1VG1H080D	0.8	0
9		ECJ1VG1H090D	0.8	0
10	±0.5 pF (D) or ±1 pF (F)	ECJ1VG1H100□	0.8	0
12		ECJ1VG1H120□	0.8	0
15		ECJ1VG1H150□	0.8	0
18		ECJ1VG1H180□	0.8	0
22		ECJ1VG1H220□	0.8	0
27		ECJ1VG1H270□	0.8	0
33		ECJ1VG1H330□	0.8	0
39		ECJ1VG1H390□	0.8	0
47		ECJ1VG1H470□	0.8	0
56		ECJ1VG1H560□	0.8	0
68		ECJ1VG1H680□	0.8	0
82	F 0(/ I)	ECJ1VG1H820□	0.8	0
100	±5 % (J)	ECJ1VG1H101□	0.8	0
120	Or . 10. 0/ (I/)	ECJ1VG1H121□	0.8	0
150	±10 % (K)	ECJ1VG1H151□	0.8	0
180	1	ECJ1VG1H181□	0.8	0
220		ECJ1VG1H221□	0.8	0
270		ECJ1VG1H271□	0.8	0
330		ECJ1VG1H331□	0.8	0
390	1	ECJ1VG1H391□	0.8	0
470		ECJ1VG1H471□	0.8	0
560		ECJ1VG1H561□	0.8	0
680		ECJ1VG1H681□	0.8	0
820		ECJ1VG1H821□	0.8	0
1000		ECJ1VG1H102□	0.8	0

ECJ1VC1H102□ 0.8

1000

Standard packaging quantity of Packaging Style Code "V" (T = 0.8 mm): 4,000 pcs./reel Recommend soldering method: Reflow soldering.

^{□:} Capacitance tolerance code.

- Standard Products for EIA "0603", Taped Version
- - ◆ Temperature Characteristic Code : B (Temperature Characteristics : B, X7R, X5R)

Rated	d voltage	DC	50	٧			DC	25	٧			DC	16	٧			DC	10	V			DC	6.3	V		
Capaci- tance	Capacitance	Part No.	Dim.		em _l Cha		Part No.	Dim.		em Cha		Part No.	Dim.		emp Cha		Part No.	Dim.		em _l Cha		Part No.	Dim.		emp Char	
(pF)	Tolerance	rait No.	(mm)	В	X7R	X5R		(mm)	В	X7R	X5R	rait No.	(mm)	В	X7R	X5R	rait NO.	(mm)	В	X7R	X5R	rait No.	(mm)	В	X7R	X5R
1000		ECJ1VB1H102□	0.8	0	0																					_
1200		ECJ1VB1H122K	0.8	0	0	_																				
1500		ECJ1VB1H152□	0.8	0	0	_																				
1800		ECJ1VB1H182K	0.8	0	0	_																				
2200		ECJ1VB1H222□	0.8	0	0	_																				
2700		ECJ1VB1H272K	0.8	0	0	_																				
3300		ECJ1VB1H332□	0.8	0	0	_																				
3900		ECJ1VB1H392K	0.8	0	0	_																				
4700		ECJ1VB1H472□	0.8	0	0	_																				
5600		ECJ1VB1H562K	0.8	0	0	_																		П		
6800		ECJ1VB1H682□	0.8	0	0	_																		П		
8200		ECJ1VB1H822K	0.8	0	0	_																		П		_
10000		ECJ1VB1H103□	0.8	0	0	_	ECJ1VB1E103□	0.8	0	0	_	ECJ1VB1C103□	0.8	0	0	_										
12000	.40 0////	ECJ1VB1H123K	0.8	0	0		ECJ1VB1E123K	0.8	0	0	_	ECJ1VB1C123K	0.8	0	0	_										_
15000	±10 %(K)	ECJ1VB1H153□	0.8	0	0		ECJ1VB1E153□	0.8	0	0	_	ECJ1VB1C153□	0.8	0	0	_										_
18000	or ±20 %(M)	ECJ1VB1H183K	0.8	0	0		ECJ1VB1E183K	0.8	0	0	_	ECJ1VB1C183K	0.8	0	0	_										_
22000	±20 %(IVI)	ECJ1VB1H223□	0.8	0	0		ECJ1VB1E223□	0.8	0	0	_	ECJ1VB1C223□	0.8	0	0	_										
27000]	ECJ1VB1H273K	0.8	0	0	_	ECJ1VB1E273K	0.8	0	0	_	ECJ1VB1C273K	0.8	0	0	_										
33000]	ECJ1VB1H333□	0.8	0	0	_	ECJ1VB1E333□	0.8	0	0	_	ECJ1VB1C333□	0.8	0	0	_								П		
39000	1	ECJ1VB1H393K	0.8	0	0	_	ECJ1VB1E393K	0.8	0	0	_	ECJ1VB1C393K	0.8	0	0	_								П		
47000]	ECJ1VB1H473□	0.8	0	0		ECJ1VB1E473□	0.8	0	0	_	ECJ1VB1C473□	0.8	0	0	_								П		_
56000]	ECJ1VB1H563K	0.8	0	0	_	ECJ1VB1E563K	0.8	0	0	_	ECJ1VB1C563K	0.8	0	0	_										
68000]	ECJ1VB1H683□	0.8	0	0	_	ECJ1VB1E683□	0.8	0	0	_	ECJ1VB1C683□	0.8	0	0	_										_
82000	1	ECJ1VB1H823K	0.8	0	0	_	ECJ1VB1E823K	0.8	0	0	_	ECJ1VB1C823K	0.8	0	0	_								П		
100000	1	ECJ1VB1H104□	0.8	0	0	_	ECJ1VB1E104□	0.8	0	0	_	ECJ1VB1C104□	0.8	0	0	_								П		
150000	1						ECJ1VB1E154□	0.8	_	<u> </u>	0	ECJ1VB1C154□	0.8	_	_	0	ECJ1VB1A154□	0.8	0	_	0			П		_
220000]						ECJ1VB1E224□	0.8	_	_	0	ECJ1VB1C224□	0.8	_	_	0	ECJ1VB1A224□	0.8	0	_	0			П		_
330000]						ECJ1VB1E334□	0.8	_	_	0	ECJ1VB1C334□	0.8		_	0	ECJ1VB1A334□	0.8	_	_	0			\Box		_
470000	1 1						ECJ1VB1E474□	0.8	_	_	0	ECJ1VB1C474□	0.8		_	0	ECJ1VB1A474□	0.8	_	_	0	ECJ1VB0J474□	0.8	0	=	0
680000							ECJ1VB1E684□	0.8		Ŀ	0	ECJ1VB1C684□	0.8			0	ECJ1VB1A684□	0.8	_	_	0	ECJ1VB0J684□	0.8	0		0

 \Box : Capacitance tolerance code : " \Box " for "K" or "M" Standard packaging quantity of Packaging Style Code "V" (T = 0.8 mm): 4,000 pcs./reel Recommend soldering method: Reflow soldering. For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.

◆ Temperature Characteristics Code : F (Temperature Characteristics : F, Y5V)

Rated	voltage	DC	50	V		DC	25	V		DC	16	V	
Capaci- tance	Capacitance	Part No.	Dim.	Ter Ch	np. ar.	Part No.	Dim.	Ter Ch	np. iar.	Part No.	Dim.		np. iar.
(pF)	Tolerance	Tart No.	(mm)	F	Y5V	Tart No.	(mm)	F	Y5V	Tait No.	(mm)	F	Y5V
10000		ECJ1VF1H103Z	0.8	0	0								
22000		ECJ1VF1H223Z	0.8	0	0								
47000	+80,	ECJ1VF1H473Z	0.8	0	0								
100000	-20 % (Z)	ECJ1VF1H104Z	0.8	0	0	ECJ1VF1E104Z	0.8	0	0	ECJ1VF1C104Z	8.0	0	0
220000										ECJ1VF1C224Z	0.8	0	0
470000										ECJ1VF1C474Z	8.0	0	0

Standard packaging quantity of Packaging Style Code "V" (T = 0.8 mm): 4,000 pcs./reel Recommend soldering method: Reflow soldering.

For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.

- Standard Products for EIA "0805", Taped Version
- - ◆ Temperature Characteristic Code : C (Temp. Char. : CΔ)

Rated	d voltage	DC	50 V		
Capaci- tance	Capacitance	Part No.	Dim. T	Ter Ch	np. ar.
(pF)	Tolerance	Tart 140.	(mm)	СН	CG
27		ECJ2VC1H270□	0.6	0	0
33		ECJ2VC1H330□	0.6	0	0
39		ECJ2VC1H390□	0.6	0	0
47		ECJ2VC1H470□	0.6	0	0
56		ECJ2VC1H560□	0.6	0	0
68		ECJ2VC1H680□	0.6	0	0
82		ECJ2VC1H820□	0.6	0	0
100		ECJ2VC1H101□	0.6	0	0
120		ECJ2VC1H121□	0.6	0	0
150		ECJ2VC1H151□	0.6	0	0
180		ECJ2VC1H181□	0.6	0	0
220	±5 %(J)	ECJ2VC1H221□	0.6	0	0
270	or	ECJ2VC1H271□	0.6	0	0
330	±10 %(K)	ECJ2VC1H331□	0.6	0	0
390		ECJ2VC1H391□	0.6	0	0
470		ECJ2VC1H471□	0.6	0	0
560		ECJ2VC1H561□	0.6	0	0
680		ECJ2VC1H681□	0.6	0	0
820		ECJ2VC1H821□	0.6	0	0
1000		ECJ2VC1H102	0.6	0	0
1200		ECJ2VC1H122□	0.6	0	
1500		ECJ2VC1H152□	0.6	0	
1800		ECJ2VC1H182□	0.6	0	
2200		ECJ2VC1H222□	0.6	0	
2700		ECJ2VC1H272□	0.85	0	

◆ Temperature Characteristic Code : G (Temp. Char. : SL)

Rated	d voltage	DC :	50 V	
Capaci- tance	Capacitance	Part No.	Dim. T	Temp. Char.
(pF)	Tölerance	Tarrivo.	(mm)	SL
27		ECJ2VG1H270□	0.6	0
33		ECJ2VG1H330□	0.6	0
39		ECJ2VG1H390□	0.6	0
47		ECJ2VG1H470□	0.6	0
56		ECJ2VG1H560□	0.6	0
68		ECJ2VG1H680□	0.6	0
82		ECJ2VG1H820□	0.6	0
100		ECJ2VG1H101□	0.6	0
120		ECJ2VG1H121□	0.6	0
150		ECJ2VG1H151□	0.6	0
180		ECJ2VG1H181□	0.6	0
220	±5 %(J)	ECJ2VG1H221□	0.6	0
270	or	ECJ2VG1H271□	0.6	0
330	±10 %(K)	ECJ2VG1H331□	0.6	0
390	,	ECJ2VG1H391□	0.6	0
470		ECJ2VG1H471□	0.6	0
_560		ECJ2VG1H561□	0.6	0
680		ECJ2VG1H681□	0.6	0
820		ECJ2VG1H821□	0.6	0
1000		ECJ2VG1H102	0.6	0
1200		ECJ2VG1H122	0.6	0
1500		ECJ2VG1H152□	0.6	0
1800		ECJ2VG1H182	0.6	0
2200		ECJ2VG1H222□	0.6	0
2700		ECJ2VG1H272□	0.6	0

: Capacitance tolerance code.

Dimensional tolerance of L, W, T: ± 0.1 mm

Standard packaging quantity of Packaging Style Code "V" (T = 0.6 mm): 5,000 pcs./reel, "V" (T = 0.85 mm): 4,000 pcs./reel

Recommend soldering method: Reflow soldering.

■ Standard Products for EIA "0805", Taped Version

- - ◆ Temperature Characteristic Code : B (Temperature Characteristics : B, X7R, X5R)

Rat	ed voltage	DC	50 '	V			DC	25 \	/			DC	16 '	V			DC	10 \	/		
Capaci- tance	Capacitance	Part No.	Dim.		emp Char		Part No.	Dim. T		emp Chai		Part No.	Dim.	T (emp Chai). ′.	Part No.	Dim.	T (emp Char). r.
(pF)	Tolerance	Fait NO.	(mm)	В	X7R	X5R	Fait NO.	(mm)	В	X7R	X5R	Fait NO.	(mm)	В	X7R	X5R	Fait NO.	(mm)	В	X7R	X5R
1000		ECJ2VB1H102□	0.6	0	0	_															
1200		ECJ2VB1H122K	0.6	0	0	_															
1500		ECJ2VB1H152□	0.6	0	0	_															
1800		ECJ2VB1H182K	0.6	0	0	_															
2200		ECJ2VB1H222□	0.6	0	0	_															
2700		ECJ2VB1H272K	0.6	0	0	_															
3300		ECJ2VB1H332□	0.6	0	0	_															
3900		ECJ2VB1H392K	0.6	0	0	_															
4700		ECJ2VB1H472□	0.6	0	0	_															
5600		ECJ2VB1H562K	0.6	0	0	_															
6800		ECJ2VB1H682□	0.6	0	0	_															
8200		ECJ2VB1H822K	0.6	0	0	_															
10000	1	ECJ2VB1H103□	0.6	0	0	_															
12000	.40 0/ ///	ECJ2VB1H123K	0.6	0	0	_															
15000	±10 % (K)	ECJ2VB1H153	0.6	0	0	_															
18000	or ±20 % (M)	ECJ2VB1H183K	0.6	0	0	_															
22000	±20 % (IVI)	ECJ2VB1H223□	0.6	0	0	_															
27000	1	ECJ2VB1H273K	0.85	0	0	_															
33000]	ECJ2VB1H333□	0.85	0	0	_															
39000	1	ECJ2VB1H393K	0.85	0	0	_															
47000	1	ECJ2FB1H473□	1.25	0	0	_	ECJ2VB1E473□	0.85	0	0	_										
56000	1	ECJ2FB1H563K	1.25	0	0	_	ECJ2VB1E563K	0.85	0	0	_										
68000]	ECJ2FB1H683□	1.25	0	0	_	ECJ2VB1E683□	0.85	0	0	_										
82000	1	ECJ2FB1H823K	1.25	0	0	_	ECJ2VB1E823K	0.85	0	0	_										
100000	1	ECJ2FB1H104□	1.25	0	0	_	ECJ2VB1E104□	0.85	0	0	_	ECJ2VB1C104□	0.85	0	0	_					
150000	1	ECJ2FB1H154□	1.25	0	0	_	ECJ2FB1E154□	1.25	0	0	_	ECJ2VB1C154□	0.85	0	0	_					
220000	1	ECJ2FB1H224□	1.25	0	0	_	ECJ2FB1E224□	1.25	0	0	_	ECJ2VB1C224□	0.85	0	0	_					
330000]						ECJ2FB1E334□	1.25	0	0	_	ECJ2FB1C334□	1.25	0	0	_					
470000]						ECJ2FB1E474□	1.25	0	0	_	ECJ2FB1C474□	1.25	0	0	_					
680000							ECJ2FB1E684□	1.25*	_	_	0	ECJ2FB1C684□	1.25*		_	0	ECJ2FB1A684□	1.25	_	_	0

□: Capacitance tolerance code: "□" for "K" or "M"

Dimensional tolerance of L, W, T: ± 0.1 mm for no mark, ± 0.15 mm for "*" mark

Standard packaging quantity of Packaging Style Code "V" (T = 0.6 mm): 5,000 pcs./reel, "V" (T = 0.85 mm): 4,000 pcs./reel, "F" (T = 1.25 mm): 3,000 pcs./reel

Soldering method of dimension T>1 mm: Avoid flow soldering.

For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.

◆ Temperature Characteristic Code : F (Temperature Characteristics : F, Y5V)

Rated voltage		DC 50 V				DC 25 V				DC 16 V			
Capaci- tance (pF)	Capacitance Tolerance	Part No.	Dim.	Dim. Cr		Part No.	Dim.		np. iar.	Part No.	Dim.	Temp. Char.	
			(mm)	F	Y5V	rantino.	(mm)	F	F Y5V	Tart No.	(mm)	F	Y5V
10000		ECJ2VF1H103Z	0.6	0	0								
22000		ECJ2VF1H223Z	0.6	0	0								
47000	+80,	ECJ2VF1H473Z	0.6	0	0								
100000	-20 %(Z)	ECJ2VF1H104Z	0.85	0	0	ECJ2VF1E104Z	0.6	0	0	ECJ2VF1C104Z	0.6	0	0
220000		ECJ2VF1H224Z	0.85	0	0	ECJ2VF1E224Z	0.85	0	0	ECJ2VF1C224Z	0.6	0	0
470000						ECJ2FF1E474Z	1.25	0	0	ECJ2VF1C474Z	0.85	0	0

Dimensional tolerance of L, W, T: ± 0.1 mm

Standard packaging quantity of Packaging Style Code "V" (T = 0.6 mm): 5,000 pcs./reel, "V" (T = 0.85 mm): 4,000 pcs./reel, "F" (T = 1.25 mm): 3,000 pcs./reel Soldering method of dimension T>1 mm: Avoid flow soldering. For capacitance 1 μF or more, see page 6 and 7 for High Capacitance.