Panasonic

Multilayer Ceramic Capacitors (630V series)

Series: ECJ



• Noise reduction for switching power supplies and DC

Recommended Applications

Packaging Specifications

See Page 45, 46, 56

to DC converters

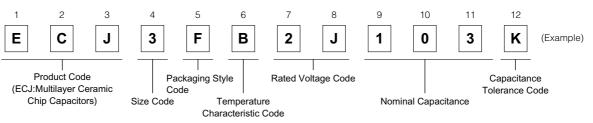
Features

- Miniaturized for high density mounting
- High humidity resistance and long life
- Low inductance (ESL) and excellent frequency characteristics
- RoHS compliant

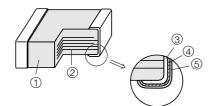
Handling Precautions

The handling precautions are described in the specifications. Please read them before purchase or use.

Explanation of Part Numbers

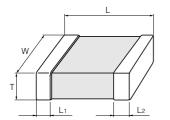


Construction



No	Name				
1	Ceramic dielectric				
2	Internal electrode				
3	-	Substrate electrode			
4	Terminal Intermediate electrode				
5	cicclicde	External electrode			

Dimensions in mm (not to scale)



Size Code	Size (EIA)	L	W	Т	L1, L2
2	1206	2 20 , 0 15	1.60±0.15	0.85±0.10	0.6±0.3
3	1200	1206 3.20±0.15	1.60±0.15	1.15±0.10	0.0±0.3

Packaging Styles and Standard Packaging Quantities

Quantity : pcs./reel

Paakaging Style Code		Size	12	06
Packaging Style Code	Packaging Styles	Thickness (mm)	T=0.85	T=1.15
V		Paper taping (Pitch: 4 mm)	4,000	
F	<i>• •</i> 180 reel	Embossed taping (Pitch: 4 mm)	_	3,000

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Temperature Characteristics

Class 1

Tananaaratuwa	Tanana anatuma	Temp. Coeff. (ppm/°C)	Rate of Capacitance change at each Temp. (%)			
	Temperature Characteristics		-25	o °C	85	°C
			max.	min.	max.	min.
С	СН	0 ± 60	0.49	-0.27	0.39	-0.39

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

• Class 2

Temperature Characteristic Code	Temperature Characteristics	Capacitance Change	Measurement Temperature Range	Reference Temperature
D	В	±10 %	–25 to 85 °C	20 °C
D	X7R	±15 %	–55 to 125 °C	25 °C

For applicable "temperature characteristics", see the lists of standard products on page 38.

Rated Voltage

Code	2J
Rated Voltage	DC 630 V

Nominal Capacitance

Ex.	101	102	103
Nominal Capacitance	100 pF	1,000 pF	10,000 pF (0.01 μF)

Capacitance tolerance

Class	Temperature Characteristics	Tolerance Code	Capacitance Tolerance
	СН	J	±5 %
I	СП	К	±10 %
0		К	±10 %
2	B, X7R	Μ	±20 %

Specifications and Testing Methods

Item	Specifications		Toot Moth	Test Method		
Item	Class 1	Class 2		Ju		
Operating Temperature Range	–55 to 125 °C					
Dielectric Withstanding Voltage	No dielectric breakdown and/	or damage	Test voltage: Rated voltage × 150 % Duration: 1 to 5 s Charge/discharge current: 50 mA ma			
Insulation Resistance (I.R.)) 10000 MΩ min. Measuring voltage: DC 500 Duration: 60±5 s Charge / Discharge current:					
Capacitance Q Factor or	Within the specified toleranceQ:1000 min. $\tan \delta$:0.025 max.		Measuring temperature: 20±2 °C Class 1			
Dissipation Factor		1an 0.0.023 max.	Measuring frequency	1 MHz±10 %		
(tan δ)			Measuring voltage	0.5 to 5 Vrms		
			Class 2 Preconditioning: The capacitors shall b kept in temperature of 150 +0/–10 °C for hour and subjected to standard conditi for 48±4 hours before initial measurem			
			Measuring frequency 1 kHz±10 S			
			Measuring voltage	1.0±0.2 Vrms		

 $\mbox{\$}$ Standard condition: Temperature 15 to 35 °C, Relative humidity 45 to 75 %. For further information, see the technical specifications.

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Standard Products for EIA Size "1206", Taped Version Class 1

◆ Temperature Characteristic Code: C (Temperature Characteristics: CH)

Rated voltage		DC 630 V			
Capaci- tance	Capacitance	Part No.	Dim.	Temp. Char.	
(pF)	Tolerance		(mm)	СН	
100		ECJ3VC2J101	0.85	0	
220	±5 % (J)	ECJ3VC2J221	0.85	0	
470	or	ECJ3FC2J471	1.15	0	
680]±10 % (K)	ECJ3FC2J681	1.15	0	
1000		ECJ3FC2J102	1.15	0	

□: Capacitance tolerance code : "□" for "J" or "K" Standard packaging quantity of Packaging Style Code "V" (T = 0.85 mm): 4,000 pcs./reel, "F" (T = 1.15 mm): 3,000 pcs./reel Soldering method of dimension T>1 mm: Avoid flow soldering.

Class 2

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

Rated voltage		DC 630 V			
Capaci- tance	Capacitance	Part No.	Dim.	Temp. Char.	
(pF)	Tolerance	Tan No.	(mm)	В	X7R
1000		ECJ3FB2J102□	1.15	0	0
2200	±10 % (K)	ECJ3FB2J222	1.15	0	0
4700	+20 % (M)	ECJ3FB2J472	1.15	0	0
10000	// ()	ECJ3FB2J103	1.15	0	0

 \Box : Capacitance tolerance code : " \Box " for "K" or "M"

Standard packaging quantity of Packaging Style Code "F" (T = 1.15 mm): 3,000 pcs./reel Avoid flow soldering.

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单击下面可查看定价,库存,交付和生命周期等信息

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