

METAL CAP TYPE MULTILAYER CERAMIC CAPACITORS





◆FEATURES

- 1. Small size and large capacitance, high ripple current.
- 2. Temperature cycle: 1000 cycles.
- 3. X7R temperature characteristics.
- 4. Excellent noise absorption.
- 5. For reflow soldering use.
- 6. Suitable for aluminum substrate.

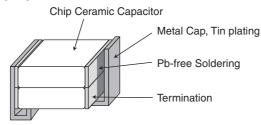
APPLICATIONS

- 1. Smoothing circuit of switching mode AC-DC or DC-DC converter.
- 2. On-board power supply.
- 3. Noise suppressor for various kinds of equipments.

♦CUSTOM MADE PRODUCTS

We can offer custom made one element metal cap type capacitors for request of customers. Please contact us if you have questions for details.

◆CONSTRUCTION



◆RATINGS

1. Category Temperature Range	-55~+125℃
2. Rated Voltage Range	25, 50, 100, 250Vdc
3. Rated Capacitance Range	1.5 to 47µF
4. Rated Capacitance Tolerance	M(±20%)
5. Temperature Characteristics	X7R
6. Rated Ripple Current	See No.5 on the following table

SPECIFICATIONS

No.	Items	Specification	Test Condition		
1	Withstand Voltage	No abnormality.	250% of rated voltage shall be applied for 5 seconds. (Only 250Vdc products : 475V)		
2	Insulation Resistance	100/Cn(M Ω) or 4000(M Ω) whichever is less.	Rated voltage shall be applied for 60±5 seconds at temperature 25±2°C.		
3	Rated Capacitance	Within specified tolerance.		Cr≦10µF	Cr>10µF
			Temperature	emperature 25±2℃	
4	Dissipation Factor	5.0% maximum	Frequency	1±0.1kHz	120±12Hz
			Voltage	1±0.2Vrms	0.5±0.2Vrms
5	Rated Ripple Current	Size 55 Arms 3.0	10kHz∼1MHz (sine curve) Ripple voltage Vp shall be less than the rated voltage.		





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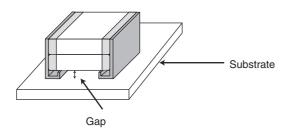
SPECIFICATIONS

No.	Items	Specification	Test Condition		
6	Temperature Cycle	Appearance : No visible damage. $\Delta C/C$: $\pm 15\%$ D.F. : To meet the initial specification. I.R. : To meet the initial specification.	Step Temperature (℃) (min.) 1 Min. Category temperature ±3 30±3 2 Room temperature 3 max. 3 Max. Category temperature ±3 30±3 4 Room temperature 3 max. <cycle> 1000 cycles</cycle>		
7	Humidity Load Life	Appearance : No abnormality. $\Delta C/C$: $\pm 20\%$ D.F. : 10% max. I.R. : $25/C_R(M\Omega)$ or $1000(M\Omega)$ whichever is less.	Temperature : $40\pm2^{\circ}$ C Humidity : 90 to 95%RH Voltage : Rated voltage Time : $500\pm_{0}^{24}$ hours		
8	Endurance	Appearance : No abnormality. $\Delta C/C$: $\pm 20\%$ D.F. : 10% max. I.R. : $50/C_R(M\Omega)$ or $1000(M\Omega)$ whichever is less.	Temperature : 125±3℃ Voltage : Rated voltage Time : 1000± ⁴⁸ ₀ hours		

*CR: Rated Capacitance(µF)

♦Note of mountig for NTJ series.

- 1. The gap of capacitor and a substrate shall be the mounting face.
- 2. To prevent degredation of temperature cycling capability, if need to be careful about amount of solder that would not go into the inner side of terminations.





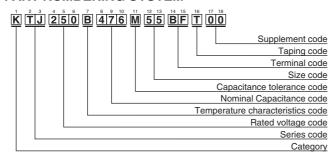
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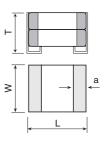
STANDARD RATINGS

Rated voltage	Rated Capacitance (µF)	Dimensions(mm)			Maximum	Part Number	
(Vdc)		L	w	Tmax.	а	ripple current (Arms)	Part Number
25	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	3.0	KTJ250B336M55BFT00
	47						KTJ250B476M55BFT00
50	15	6.0±0.4	5.3±0.4	5.5	1.3±0.3	3.0	KTJ500B156M55BFT00
	22						KTJ500B226M55BFT00
100	6.8	6.0±0.4	5.3±0.4	5.5	1.3±0.3	3.0	KTJ101B685M55BFT00
	10						KTJ101B106M55BFT00
250	1.5	6.0±0.4	5.3±0.4	5.5	1.3±0.3	3.0	KTJ251B155M55BFT00
	2.2						KTJ251B225M55BFT00

◆PART NUMBERING SYSTEM



◆DIMENSIONS



Please refer to "Part Numbering System" of the beginning of a catalog for the details.

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CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K

CGA3E1X7R1C474K