

METAL CAP TYPE MULTILAYER CERAMIC CAPACITORS

NTJ Series

♦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.

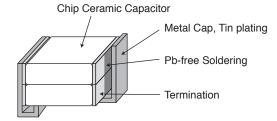
APPLICATIONS

- 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	1.0 to 100μF			
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/CR(M Ω) or 4000(M is less.	VΩ) w	hiche	/er	Rated voltage shall be applied for 60 ± 5 seconds at temperature $25\pm2^{\circ}$ C.		
3	Rated Capacitance	Within specified tolerance.					Cr≦10µF	Св>10µF
						Temperature	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	Size55Element1Arms2.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Ripple voltage	0kHz~1MHz (sine curve) Ripple voltage Vp shall be less than ne rated voltage.		

As customer requirement, Chemi-Con has submits the test results according to AEC-Q200 for Multilayer ceramic capacitors. Please contact us for more information.



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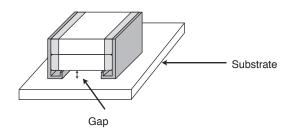
\$SPECIFICATIONS

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.	StepTemperature (°C)(min.)1Min. Category temperature ±330±32Room temperature3 max.3Max. Category temperature ±330±34Room temperature3 max. <cycle>1000 cycles</cycle>			
7	Humidity Load Life	Appearance : No abnormality. $\Delta C/C : \pm 20\%$ D.F. : 10% max. I.R. : 25/CR(M Ω) or 1000(M Ω) whichever is less.	Temperature : $40\pm 2^{\circ}$ CHumidity : 90 to 95%RHVoltage : Rated voltageTime : $500\pm_{0}^{24}$ hours			
8	Endurance	Appearance : No abnormality. $\Delta C/C : \pm 20\%$ D.F. : 10% max. I.R. : 50/C _R (M Ω) or 1000(M Ω) 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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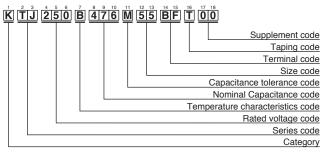
NIPPON CHEMI-CON

♦STANDARD RATINGS

Rated voltage	Rated Capacitance (µF)	Dimensions(mm)				_	Maximum	Deut Number	Taping
(Vdc)		L	w	Tmax.	а	Element	ripple current (Arms)	Part Number	Quantity per reel (pcs. / reel)
	33	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ250B336M55AFT00	400
	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ250B336M55BFT00	2,000
25	47	0.0±0.4						KTJ250B476M55BFT00	2,000
25	47	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ250B476M76AFT00	1,200
	68	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	4.0	KTJ250B686M76BFT00	500
	100	7.0±0.5		9.5	1.5±0.5	2		KTJ250B107M76BFT00	400
	15	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ500B156M55AFT00	400
	15	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ500B156M55BFT00	2,000
50	22							KTJ500B226M55BFT00	2,000
50	22	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ500B226M76AFT00	1,200
	33	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	4.0	KTJ500B336M76BFT00	500
	47							KTJ500B476M76BFT00	500
	4.7	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ101B475M55AFT00	400
	6.8	60-01	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ101B685M55BFT00	2,000
100	10							KTJ101B106M55BFT00	2,000
	6.8	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ101B685M76AFT00	1,200
	15	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	4.0	KTJ101B156M76BFT00	500
	1.0	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ251B105M55AFT00	400
	1.5	<u> </u>	50.04	5.5	1.3±0.3	2	3.0	KTJ251B155M55BFT00	2,000
250	2.2		5.3±0.4	6.5				KTJ251B225M55BFT00	2,000
	2.2	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ251B225M76AFT00	1,200
	3.3	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	3.0	KTJ251B335M76BFT00	500

%Please consult with us when you consider the rating other than a standard table.

♦PART NUMBERING SYSTEM



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

♦DIMENSIONS

