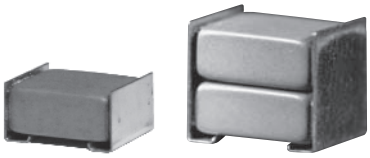
METAL CAP TYPE MULTILAYER CERAMIC CAPACITORS

NTJ Series

RoHS Compliant



◆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.

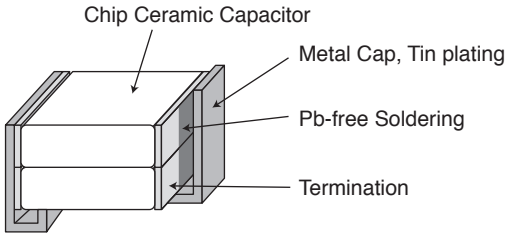
◆APPLICATIONS

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

<table>
<tr><th>No.</th><th>Items</th><th>Specification</th><th>Test Condition</th></tr>
<tr><td>1</td><td>Withstand Voltage</td><td>No abnormality.</td><td>250% of rated voltage shall be applied for 5 seconds.
(Only 250Vdc products : 475V)</td></tr>
<tr><td>2</td><td>Insulation Resistance</td><td>100/CR(MΩ) or 4000(MΩ) whichever is less.</td><td>Rated voltage shall be applied for 60±5 seconds at temperature 25±2℃.</td></tr>
<tr><td>3</td><td>Rated Capacitance</td><td>Within specified tolerance.</td><td rowspan="2"><table><tr><td></td><td>CR≦10μF</td><td>CR>10μF</td></tr><tr><td>Temperature</td><td colspan="2">25±2℃</td></tr><tr><td>Frequency</td><td>1±0.1kHz</td><td>120±12Hz</td></tr><tr><td>Voltage</td><td>1±0.2Vrms</td><td>0.5±0.2Vrms</td></tr></table></td></tr>
<tr><td>4</td><td>Dissipation Factor</td><td>5.0% maximum</td></tr>
<tr><td>5</td><td>Rated Ripple Current</td><td><table><tr><td>Size</td><td colspan="2">55</td><td colspan="2">76</td></tr><tr><td>Element</td><td>1</td><td>2</td><td>1</td><td>2</td></tr><tr><td>Arms</td><td>2.0</td><td>3.0</td><td>3.0</td><td>4.0</td></tr></table></td><td>10kHz～1MHz (sine curve)
Ripple voltage Vp shall be less than the rated voltage.</td></tr>
</table>

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

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

NTJ Series

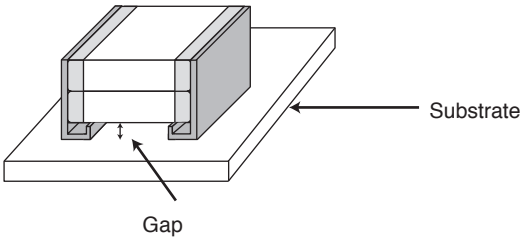
◆SPECIFICATIONS

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

*C_R : 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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METAL CAP TYPE MULTILAYER CERAMIC CAPACITORS

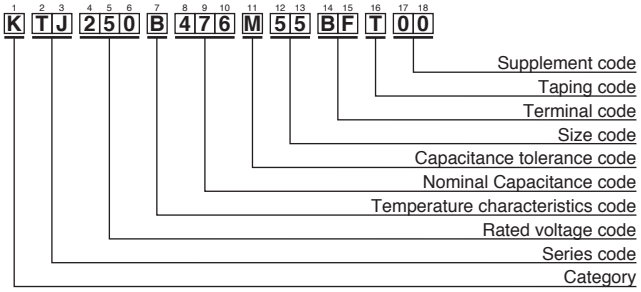
NTJ Series

◆STANDARD RATINGS

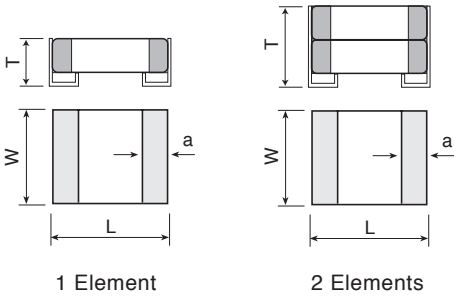
Rated voltage (Vdc)	Rated Capacitance (μF)	Dimensions(mm)				Element	Maximum ripple current (Arms)	Part Number	Taping Quantity per reel (pcs. / reel)
		L	W	Tmax.	a				
25	33	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ250B336M55AFT00	400
	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ250B336M55BFT00	2,000
	47							KTJ250B476M55BFT00	2,000
	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			9.5				KTJ250B107M76BFT00	400
50	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
	22							KTJ500B226M55BFT00	2,000
	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
100	4.7	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ101B475M55AFT00	400
	6.8	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ101B685M55BFT00	2,000
	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
250	1.0	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ251B105M55AFT00	400
	1.5	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ251B155M55BFT00	2,000
	2.2			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



◆DIMENSIONS



1 Element　　2 Elements

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

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