

◆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.



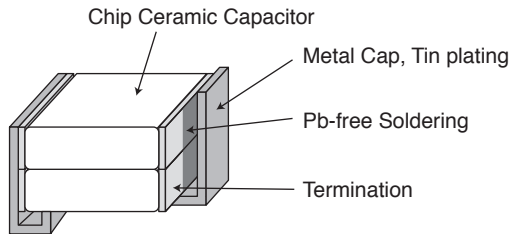
◆APPLICATIONS

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°C
2. Rated Voltage Range	25, 35, 50, 100, 250V _{dc}
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 250V _{dc} products : 475V)		
2	Insulation Resistance	100/C _R (MΩ) or 4000(MΩ) 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 25±2°C		
4	Dissipation Factor	5.0% maximum	Frequency	1±0.1kHz	120±12Hz
			Voltage	1±0.2Vrms	0.5±0.2Vrms
5	Rated Ripple Current	See STANDARD RATINGS	10kHz~1MHz (sine curve) Ripple voltage V _p shall be less than the 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.

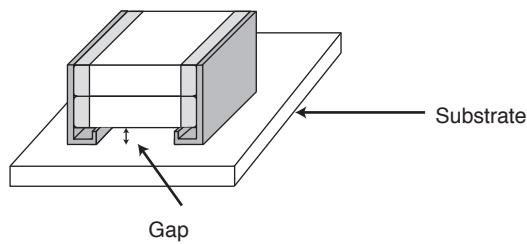
◆SPECIFICATIONS

No.	Items	Specification	Test Condition															
6	Temperature Cycle	Appearance : No visible damage. ΔC/C : ±15% D.F. : To meet the initial specification. I.R. : To meet the initial specification.	<table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>(min.)</th> </tr> </thead> <tbody> <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> </tbody> </table> <p><Cycle> 1000 cycles</p>	Step	Temperature (°C)	(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.
Step	Temperature (°C)	(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.																
7	Humidity Load Life	Appearance : No abnormality. ΔC/C : ±20% D.F. : 10% max. I.R. : 25/C _R (MΩ) or 1000(MΩ) whichever is less.	Temperature : 40±2°C Humidity : 90 to 95%RH Voltage : Rated voltage Time : 500± ²⁴ ₀ hours															
8	Endurance	Appearance : No abnormality. ΔC/C : ±20% D.F. : 10% max. I.R. : 50/C _R (MΩ) or 1000(MΩ) whichever is less.	Temperature : 125±3°C Voltage : Rated voltage Time : 1000± ⁴⁸ ₀ hours															

*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 degradation of temperature cycling capability, if need to be careful about amount of solder that would not go into the inner side of terminations.

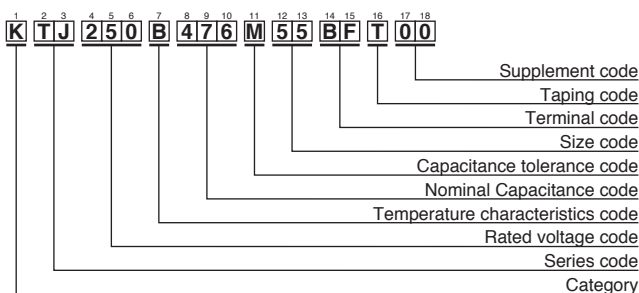


◆STANDARD RATINGS

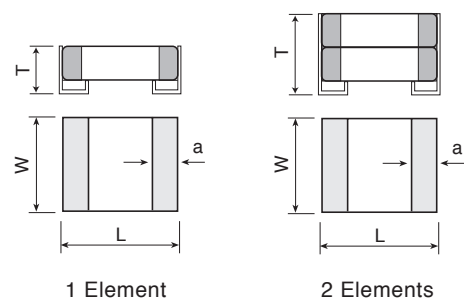
Rated voltage (Vdc)	Rated Capacitance (μF)	Dimensions(mm)				Element	Maximum ripple current (Arms)	Part Number	Taping Quantity per reel (pcs. / reel)						
		L	W	Tmax.	a										
25	33	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ250B336M55AFT00	400						
	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ250B336M55BFT00	2,000						
	47							KTJ250B476M55BFT00	2,000						
	68	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ250B686M55BFT00	1,500						
	47							KTJ250B476M76AFT00	1,200						
	68							KTJ250B686M76BFT00	500						
100	KTJ250B107M76BFT00							400							
35	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ350B336M55BFT00	2,000						
	47	6.0±0.4	5.3±0.4	5.5	1.3±0.3	1	3.0	KTJ350B476M55BFT00	2,000						
	47							KTJ350B476M76AFT00	1,200						
	68	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	4.0	KTJ350B686M76BFT00	500						
	100							KTJ350B107M76BFT00	500						
	50							15	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ500B156M55AFT00
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												
33		7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ500B336M55BFT00	1,500						
22								KTJ500B226M76AFT00	1,200						
33								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						
	15	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ101B156M55BFT00	1,500						
	22							KTJ101B226M55BFT00	2,000						
	6.8							KTJ101B685M76AFT00	1,200						
15	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							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							KTJ251B335M76BFT00	500						

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

◆PART NUMBERING SYSTEM



◆DIMENSIONS



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