

METAL CAPTYPE 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.

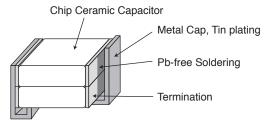
◆APPLICATIONS

- 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

Category Temperature Range	-55∼+125℃		
2. Rated Voltage Range	25, 35, 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/Cn(M Ω) or 4000(M Ω) whichever is less.	Rated voltage shall be applied for 60 ± 5 seconds at temperature $25\pm 2^{\circ}\text{C}$.			
3	Rated Capacitance	Within specified tolerance.		Cr≦10µF	Cr>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	See STANDARD RATINGS	10kHz~1MHz (sine curve) Ripple voltage Vp 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.





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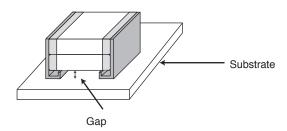
SPECIFICATIONS

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 (°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. <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±2°C Humidity : 90 to 95%RH Voltage : Rated voltage Time : 500±2⁴hours		
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°C 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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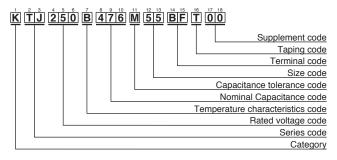


STANDARD RATINGS

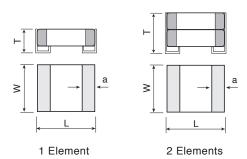
Rated voltage	Rated Capacitance (µF)	Dimensions(mm)					Maximum		Taping
(Vdc)		L	w	Tmax.	а	Element	ripple current (Arms)	Part Number	Quantity per reel (pcs. / reel)
	33	6.0±0.4	5.3±0.4	3.8	1.3±0.3	1	2.0	KTJ250B336M55AFT00	400
	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ250B336M55BFT00	2,000
	47							KTJ250B476M55BFT00	2,000
25	68							KTJ250B686M55BFT00	1,500
	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	1.5±0.5		4.0	KTJ250B107M76BFT00	400
	33	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ350B336M55BFT00	2,000
	47	0.0±0.4	5.5±0.4					KTJ350B476M55BFT00	2,000
35	47	7.8±0.5	6.6±0.5	5.5	1.5±0.3	1	3.0	KTJ350B476M76AFT00	1,200
	68	7.8±0.5	6.6±0.5	8.5	1.5±0.3	2	4.0	KTJ350B686M76BFT00	500
	100	7.0±0.5	0.0±0.5	6.5	1.5±0.5	2	4.0	KTJ350B107M76BFT00	500
	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
50	33							KTJ500B336M55BFT00	1,500
	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						KTJ101B685M55BFT00	2,000	
	10	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ101B106M55BFT00	2,000
100	15							KTJ101B156M55BFT00	1,500
	22							KTJ101B226M55BFT00	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	6.0±0.4	5.3±0.4	5.5	1.3±0.3	2	3.0	KTJ251B155M55BFT00	2,000
250	2.2 6.0±0.4	0.0±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



♦DIMENSIONS



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

United Chemi-Con (UCC):

KTJ500B476M76BFT00 KTJ101B156M76BFT00 KTJ101B685M76AFT00 KTJ251B105M55AFT00 KTJ250B476M76AFT00 KTJ251B225M76AFT00 KTJ101B475M55AFT00 KTJ500B336M76BFT00 KTJ250B686M76BFT00 KTJ251B335M76BFT00 KTJ250B107M76BFT00 KTJ500B226M76AFT00