

DIPPED RADIAL LEAD MULTILAYER CERAMIC CAPACITORS





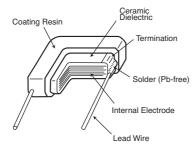
◆FEATURES

- 1. Small in size and wide capacitance range. Max. $33\mu F$ is available.
- 2. Temperature characteristic is X7R in EIA code.
- 3. Superior humidity characteristic and long life.
- 4. Excellent high frequency characteristic due to low ESR.
- 5. High rated ripple current.
- 6. 250Vdc items are available.
- 7. Resin(UL94 V-0) used for coating.
- 8. Pb-free design(also ceramic dielectric)

APPLICATIONS

- 1. Smoothing circuit of switching mode AC-DC or DC-DC converter.
- 2. Noise suppressor for various kinds of equipments.
- 3. By-pass or decoupling circuits.
- 4. Automotive equipments.

◆CONSTRUCTION



◆RATINGS

Category Temperature Range	-55 to +125℃
2. Rated Voltage Range	25, 50, 100, 250 Vdc
3. Rated Capacitance Range	0.1 to 33µF
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	Between Terminals	No abnormality.	250% of rated voltage shall be applied for 5 seconds. (Only 250Vdc products : 475V)				
		Terminals to Coating Resin						
2	Insulation Re	sistance	100/C _R (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 Capac	itance	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		





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SPECIFICATIONS

No.		Items	S	pecificat	ion				Test	Condition	
5	Rated Ripple	Current	Size code Arms	32 0.3	43 0.8	55 1.0	10kHz to 1MHz (sine curve) Ripple voltage Vp shall be less than the rated volt			ated voltage.	
6	Robustness Tension of Terminations		No visible damage.			The force applied shall be : Lead ϕ (mm) Tensile(N) (sec.) 0.5 max. 5 10 \pm 1			(sec.)		
		Bending					Lead φ (mm) Bending(N) 0.5 max. 2.5 Time: 2times.		(kg) 0.25		
7	Vibration		Appearance : No Capacitance : To sp D.F. : To meet th	meet the	ne initial on.		Amplitude : 1.5mm Frequency range : 10-55-10Hz (1 min) Direction and time : 2 hours each to X, Y, Z axis. Total 6 hours.				
8	Solderability		Min. 75% of surfa				Solder Solder Temperature Dipping Time		Pb Free 245±5℃ 2±0.8	Eutectic 235±5℃ 5sec.	
9	Resistance to	Soldering Heat	Appearance : No $\Delta C/C$: $\pm 15\%$ D.F. : Satisfy the		,		Solder Temperature : 350±10℃ Dipping Time : 3±0.5 sec. Depth : 1.5 to 2mm				
10	Temperature	Cycle	Appearance : No abnormality. ΔC/C :±15% D.F. : To meet the initial specification I.R. : To meet the initial specification			3 Max. Category temperature ±3 30±3			30±3 3 max.		
11	Humidity Loa	d Life	Appearance : No ΔC/C :±20% D.F. : 10% maxin I.R. : 25/C _R (MΩ)	num	(MΩ)	s.	Temperature: 40±2°C Humidity: 90 to 95%RH Voltage: Rated voltage Time: 500±2⁴hours				
12	Endurance		Appearance : No ΔC/C :±20% D.F. : 10% maxin I.R. : 50/CR(MΩ)	num	(MΩ)	i.	Temperatu Voltage Time	: Rate	±3℃ ed voltag 0± ⁴⁸ hou		_

*CR : Rated Capacitance(µF)



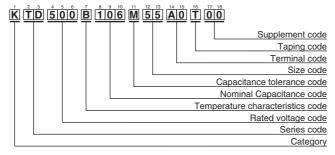
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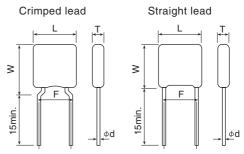
STANDARD RATINGS

Rated voltage	Rated Capacitance			Dimensions(m	Maximum ripple current			
(Vdc)	(μ F)	Lmax.	Wmax.	Tmax.	F±0.8	φd±0.05	(Arms)	Part Number
	3.3	5.0	6.0	3.5	5.0	0.5	0.3	KTD250B335M32A0T00
	4.7	5.0	6.0	3.5	5.0	0.5	0.3	KTD250B475M32A0T00
	6.8						0.8	KTD250B685M43A0T00
25	10	6.5	6.5	4.0	5.0	0.5		KTD250B106M43A0T00
25	15							KTD250B156M43A0T00
	15		9.0	4.5				KTD250B156M55A0T00
	22	7.5			5.0	0.5	1.0	KTD250B226M55A0T00
	33							KTD250B336M55A0T00
	1.0							KTD500B105M32A0T00
	1.5	5.0	6.0	3.5	5.0	0.5	0.3	KTD500B155M32A0T00
	2.2	5.0	6.0		5.0	0.5		KTD500B225M32A0T00
50	3.3							KTD500B335M32A0T00
50	4.7	6.5	6.5	4.0	5.0	0.5	0.8	KTD500B475M43A0T00
	6.8	6.5	6.5	4.0	5.0	0.5	0.0	KTD500B685M43A0T00
	10	7.5	9.0	4.5	5.0	0.5	1.0	KTD500B106M55A0T00
	15				5.0	0.5		KTD500B156M55A0T00
	0.33	5.0	6.0	3.5	5.0	0.5	0.3	KTD101B334M32A0T00
	0.47							KTD101B474M32A0T00
	0.68							KTD101B684M32A0T00
	1							KTD101B105M32A0T00
	1.5							KTD101B155M32A0T00
	2.2							KTD101B225M32A0T00
100	1.5		6.5	4.0	5.0	0.5	0.8	KTD101B155M43A0T00
	2.2	6.5						KTD101B225M43A0T00
	3.3							KTD101B335M43A0T00
	4.7							KTD101B475M43A0T00
	3.3	7.5	9.0	4.5		5.0 0.5	1.0	KTD101B335M55A0T00
	4.7				5.0			KTD101B475M55A0T00
	6.8			4.7				KTD101B685M55A0T00
	0.1	5.0		3.5			0.3	KTD251B104M32A0T00
	0.15		6.0		5.0	0.5		KTD251B154M32A0T00
	0.22		0.0					KTD251B224M32A0T00
250	0.33							KTD251B334M32A0T00
230	0.47	6.5	6.5	4.0	5.0	0.5	0.8	KTD251B474M43A0T00
	0.68	0.5						KTD251B684M43A0T00
	1	7.5	9.0	4.5	5.0	0.5	1.0	KTD251B105M55A0T00
	1.5							KTD251B155M55A0T00

◆PART NUMBERING SYSTEM



◆DIMENSIONS



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