

DIPPED RADIAL LEAD MULTILAYER CERAMIC CAPACITORS





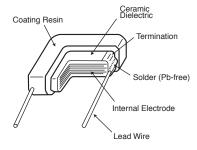
◆FEATURES

- 1. Small in size and wide capacitance range. Max. 470µF 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, 500Vdc
3. Rated Capacitance Range	0.1 to 470μF
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 Between Voltage Terminals		No abnormality.		Rated voltage		Withstand voltage	
		Terminals to		Less than 250V		250% of rated voltage		
		Coating Resin			nan 250V an 500V	100V + 150% of rated voltage		
				More th	nan 500V	130% of rated voltage		
				Shall be applied for 5 seconds.				
2	Insulation Resistance		100/C _R (MΩ) or 4000(MΩ) whichever is less.	Rated voltag temperature	e shall be applied for 60±5 seconds at 25±2℃.			
3	Rated Capacitance		Within specified tolerance.		Cr≦10μF Cr>10μF		CR>10µF	
				Temperature	ature 25±2°C		:2°C	
4	Dissipation Factor		5.0% maximum.	Frequency	1±0.1kHz 120±12Hz		120±12Hz	
				Voltage	1±0.2Vrm	s	0.5±0.2Vrms	

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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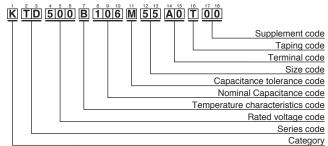


SPECIFICATIONS

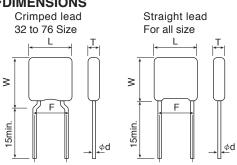
No.	Items		Specification		Test Condition			
5	Rated Ripple Current		See STANDARD RATINGS	10kHz to 1MHz (sine curve) Ripple voltage Vp shall be less than the rated voltage				
6	Robustness Tension of Terminations		No visible damage.	The force applied shall be :				
				Lead φ (mm)	Tensile(N)	ile(N) (sec.)		
	Terrimations			0.5 max.	5	10±1		
				0.6 min.	10	10±1		
		Bending		Lead φ (mm)	Bending(N)	(kg)		
				0.5 max.	2.5	0.25		
				0.6 min.	5	0.51		
				Time : 2times.				
7	Vibration		Appearance: No abnormality. Capacitance: To meet the initial specification. D.F.: To meet the initial specification.	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 surface of the termination	Solder		Pb Free		
			shall be covered with new solder.	Solder Temperati	ure	245±5℃		
				Dipping Time 2±0.5sec.				
9	Resistance to	Soldering Heat	Appearance: No abnormality. ΔC/C:±15% D.F.: To meet the initial specification. I.R.: To meet the initial specification.	Solder Temperature : 350±10°C Dipping Time : 3±0.5 sec. Depth : 1.5 to 2mm				
10	Temperature Cycle			Step Ter	mperature (°C)	(min.)		
			Appearance : No abnormality.	1 Min. Cate	` '			
			ΔC/C :±15%	2 Room temperature 3 n				
			D.F.: To meet the initial specification.	3 Max. Category temperature ±3 30±3				
			I.R.: To meet the initial specification.	4 Room temperature 3 max.				
				For 5 cycles for above temperature cycle.				
11	Humidity Load	l Life	Appearance : No abnormality. $\Delta C/C:\pm 20\%$ D.F. : 10% maximum I.R. : 25/CR(M Ω) or 1000(M Ω) whichever is less.	Temperature: 40±2°C Humidity: 90 to 95%RH Voltage: Rated voltage Time: 500± 24/0 hours				
12	Endurance		Appearance : No abnormality. $\Delta C/C:\pm 20\%$ D.F. : 10% maximum I.R. : $50/C_R(M\Omega)$ or $1000(M\Omega)$ whichever is less.	Temperature : 125±3 Voltage : Rated Time : 1000±				

^{*}CR : Rated Capacitance(µF)

◆PART NUMBERING SYSTEM



◆DIMENSIONS



CAT. No. E1002X

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



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STANDARD RATINGS

Rated voltage	Rated Capacitance	Dimensions (mm)					Maximum ripple current	Dout Name to	Taping
(Vdc)	(μ F)	Lmax.	Wmax.	Tmax.	F±0.8	φd±0.05	(Arms)	Part Number	Quantity per reel (pcs. / box)
	3.3	5.0	6.0	3.5	5.0	0.5	0.3	KTD250B335M32A0T00	2,000
	4.7							KTD250B475M32A0T00	2,000
	6.8							KTD250B685M43A0T00	2,000
	10	6.5	6.5	4.0	5.0	0.5	0.8	KTD250B106M43A0T00	2,000
	15							KTD250B156M43A0T00	2,000
	15							KTD250B156M55A0T00	2,000
	22	7.5	9.0	4.5	5.0	0.5	1.0	KTD250B226M55A0T00	2,000
25	33							KTD250B336M55A0T00	2,000
	47	10.0	11.5	5.5	5.0	0.5	1.5	KTD250B476M76A0T00	1,000
	68	13.5	15.0	6.0	10.0	0.6	2.0	KTD250B686M80A0B00	_
	100			8.0	10.0	0.0	2.0	KTD250B107M80A0B00	
	150	22.5	20.0	6.0	20.0	0.8	3.0	KTD250B157M90A0B00	_
	220			8.0		0.0	0.0	KTD250B227M90A0B00	_
	330	28.5	20.0	8.0	25.0	0.8	4.0	KTD250B337M99A0B00	_
	470			11.5				KTD250B477M99A0B00	
	1.0	5.0						KTD500B105M32A0T00	2,000
	1.5		6.0	3.5	5.0	0.5	0.3	KTD500B155M32A0T00	2,000
	2.2		0.0	0.0	0.0	0.0	0.0	KTD500B225M32A0T00	2,000
	3.3							KTD500B335M32A0T00	2,000
	4.7	6.5	6.5	4.0	5.0	0.5	0.8	KTD500B475M43A0T00	2,000
	6.8	5.5	3.5	7.0	3.0	0.0	J.0	KTD500B685M43A0T00	2,000
	10	7.5	9.0	4.5	5.0	0.5	1.0	KTD500B106M55A0T00	2,000
50	15							KTD500B156M55A0T00	2,000
	22	10.0	11.5	5.0	5.0	0.5	1.5	KTD500B226M76A0T00	1,000
	33	13.5	15.0	5.5	10.0	0.6	2.0	KTD500B336M80A0B00	_
	47			6.0				KTD500B476M90A0B00	_
	68	22.5	20.0	0.0	20.0	0.8	3.0	KTD500B686M90A0B00	_
	100			7.0		0.8		KTD500B107M90A0B00	_
	150	28.5	20.0	7.5	25.0		4.0	KTD500B157M99A0B00	-
	220	20.5	20.0	10.0	25.0	0.0	4.0	KTD500B227M99A0B00	_
	0.33		6.0	3.5	5.0	0.5	0.3	KTD101B334M32A0T00	2,000
	0.47	5.0						KTD101B474M32A0T00	2,000
	0.68							KTD101B684M32A0T00	2,000
	1.0							KTD101B105M32A0T00	2,000
	1.5							KTD101B155M32A0T00	2,000
	2.2							KTD101B225M32A0T00	2,000
	1.5 2.2							KTD101B155M43A0T00	2,000
		6.5						KTD101B225M43A0T00	2,000
	3.3	6.5						KTD101B335M43A0T00	2,000
	4.7 3.3 4.7							KTD101B475M43A0T00	2,000
100				4.5				KTD101B335M55A0T00	2,000
		4.7	7.5	9.0	4.5	5.0	0.5	1.0	KTD101B475M55A0T00
	6.8			4.7				KTD101B685M55A0T00	2,000
	6.8	10.0	11.5	5.0	5.0	0.5	1.5	KTD101B685M76A0T00	1,000
	10	10.5	45.0	5.0	40.0	0.0	0.0	KTD101B106M80A0B00	_
	15	13.5	15.0	6.0	10.0	0.6	2.0	KTD101B156M80A0B00	_
	22	20.5	00.0	0.0	00.0	0.0	0.0	KTD101B226M90A0B00	_
	33	22.5	20.0	6.0	20.0	0.8	3.0	KTD101B336M90A0B00	_
	47		5 20.0	7.5 9.0	25.0	0.8	4.0	KTD101B476M99A0B00	_
	68	28.5						KTD101B686M99A0B00	_
	100							KTD101B107M99A0B00	_
	0.1						0.3	KTD251B104M32A0T00	2,000
	0.15		6.0	3.5	5.0	2.5		KTD251B154M32A0T00	2,000
	0.22	5.0				0.5		KTD251B224M32A0T00	2,000
	0.33							KTD251B334M32A0T00	2,000
	0.47					_	_	KTD251B474M43A0T00	2,000
	0.68	6.5	6.5	4.0	5.0	0.5	0.8	KTD251B684M43A0T00	2,000
	1.0							KTD251B105M55A0T00	2,000
250	1.5	7.5	9.0	4.5	5.0	0.5	1.0	KTD251B155M55A0T00	2,000
250	1.5		11.5	6.0	5.0	0.5	1.5	KTD251B225M76A0T00	1,000
250		10.0			10.0	0.6	2.0	KTD251B225M80A0B00	-
250	2.2	10.0 13.5		5.0		0.0	2.0		
250	2.2 2.2	13.5	15.0	5.0			3.0	KTD251B335M90A0B00	_
250	2.2 2.2 3.3			5.0 6.0	20.0	0.8	3.0	KTD251B335M90A0B00 KTD251B475M90A0B00	
250	2.2 2.2 3.3 4.7	13.5	15.0			0.8	3.0	KTD251B475M90A0B00	
250	2.2 2.2 3.3 4.7 6.8	13.5 22.5	15.0 20.0	6.0	20.0			KTD251B475M90A0B00 KTD251B685M99A0B00	_
250	2.2 2.2 3.3 4.7 6.8	13.5	15.0			0.8	3.0 4.0	KTD251B475M90A0B00 KTD251B685M99A0B00 KTD251B106M99A0B00	_
250	2.2 2.2 3.3 4.7 6.8 10	13.5 22.5 28.5	15.0 20.0 20.0	6.0 7.5	20.0	0.8	4.0	KTD251B475M90A0B00 KTD251B685M99A0B00 KTD251B106M99A0B00 KTD251B156M99A0B00	- - -
250	2.2 2.2 3.3 4.7 6.8 10 15	13.5 22.5	15.0 20.0	6.0	20.0			KTD251B475M90A0B00 KTD251B685M99A0B00 KTD251B106M99A0B00 KTD251B156M99A0B00 KTD501B474M55A0T00	
	2.2 2.2 3.3 4.7 6.8 10 15 0.47 0.56	13.5 22.5 28.5	15.0 20.0 20.0	6.0 7.5 3.5	20.0	0.8	4.0	KTD251B475M90A0B00 KTD251B685M99A0B00 KTD251B106M99A0B00 KTD251B156M99A0B00 KTD501B474M55A0T00 KTD501B564M55A0T00	
500	2.2 2.2 3.3 4.7 6.8 10 15	13.5 22.5 28.5	15.0 20.0 20.0	6.0 7.5	20.0	0.8	4.0	KTD251B475M90A0B00 KTD251B685M99A0B00 KTD251B106M99A0B00 KTD251B156M99A0B00 KTD501B474M55A0T00	

^{**}Please consult with us when you consider the rating other than a standard table.

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