

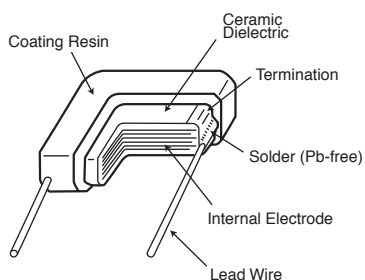
◆FEATURES

1. Small in size and wide capacitance range.
Max. 470 μ 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. 250V_{dc} 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

1. Category Temperature Range	-55 to +125°C
2. Rated Voltage Range	25, 50, 100, 250 V _{dc}
3. Rated Capacitance Range	0.1 to 470 μ F
4. Rated Capacitance Tolerance	M($\pm$ 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 250V _{dc} products : 475V)		
		Terminals to Coating Resin				
2	Insulation Resistance		100/C _R (M Ω) or 4000(M Ω) whichever is less.	Rated voltage shall be applied for 60 $\pm$ 5 seconds at temperature 25 $\pm$ 2°C.		
3	Rated Capacitance		Within specified tolerance.		C _R $\leq$ 10 μ F	C _R >10 μ F
				Temperature	25 $\pm$ 2°C	
4	Dissipation Factor		5.0% maximum.	Frequency	1 $\pm$ 0.1kHz	120 $\pm$ 12Hz
				Voltage	1 $\pm$ 0.2V _{rms}	0.5 $\pm$ 0.2V _{rms}

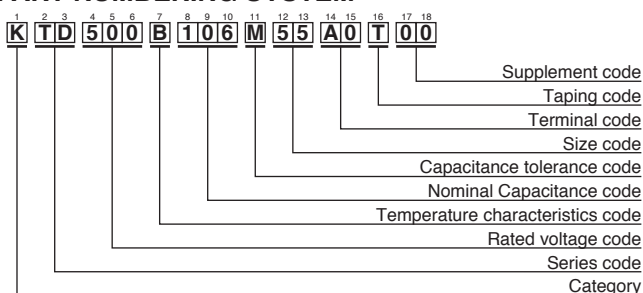
As customer requirement, Chemi-Con has submits the test results according to AEC-Q200 for Multilayer ceramic capacitors. Please contact us for more information.

◆ SPECIFICATIONS

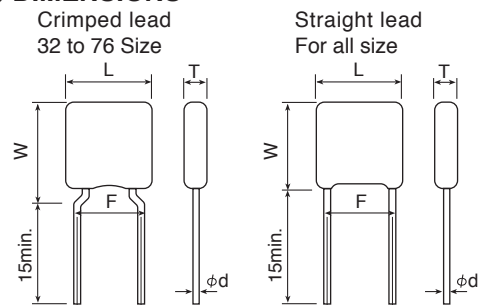
No.	Items		Specification								Test Condition		
5	Rated Ripple Current		Size code	32	43	55	76	80	90	99	10kHz to 1MHz (sine curve) Ripple voltage Vp shall be less than the rated voltage.		
			Arms	0.3	0.8	1.0	1.5	2.0	3.0	4.0			
6	Robustness of Terminations	Tension	No visible damage.								The force applied shall be :		
											Lead ϕ (mm)	Tensile(N)	(sec.)
											0.5 max.	5	10± 1
		0.6 min.									10	10± 1	
		Lead ϕ (mm)									Bending(N)	(kg)	

*C_R : Rated Capacitance(μ F)

◆PART NUMBERING SYSTEM



◆ DIMENSIONS



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



DIPPED RADIAL LEAD MULTILAYER CERAMIC CAPACITORS

NTDSeries

◆STANDARD RATINGS

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

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