

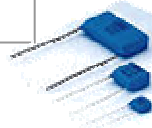
## NTD Series X7R, Thru-Hole Type Multilayer Ceramic Capacitors

### ◆ FEATURES

- Large capacitance by small size
- Excellent noise absorption
- High permissible ripple current capability
- Lead-free dielectric and terminations
- Resin (UL94 V-0) used for coating

### ◆ SPECIFICATIONS

- Operating temperature range: -55 to +125°C
- Rated voltage range: 25Vdc, 50Vdc and 100Vdc
- Rated capacitance range: 25Vdc; 3.3 to 22μF  
50Vdc; 1.0 to 10μF  
100Vdc; 0.33 to 4.7μF
- Capacitance tolerance: M (±20%)
- Temperature characteristics: X7R (EIA)



### ◆ RATINGS and SIZES

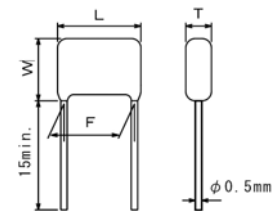
New Part No.	Voltage (Vdc)	Cap. (μF)	Dimensions (mm)				Ref. old part No.
			L max.	W max.	T max.	F±0.8	
KTD250B335M32A0T00	25	3.3	5.0	6.0	3.5	5.0	NTD21X7R1E335M
KTD250B475M32A0T00		4.7					NTD21X7R1E475M
KTD250B685M43A0T00		6.8	6.5	6.5	4.0	5.0	NTD30X7R1E685M
KTD250B106M43A0T00		10					NTD30X7R1E106M
KTD250B156M55A0T00		15	7.5	9.0	4.5	5.0	NTD31X7R1E156M
KTD250B226M55A0T00		22					NTD31X7R1E226M
KTD500B105M32A0T00	50	1.0	5.0	6.0	3.5	5.0	NTD21X7R1H105M
KTD500B155M32A0T00		1.5					NTD21X7R1H155M
KTD500B225M32A0T00		2.2					NTD21X7R1H225M
KTD500B335M43A0T00		3.3	6.5	6.5	4.0	5.0	NTD30X7R1H335M
KTD500B475M43A0T00		4.7					NTD30X7R1H475M
KTD500B685M55A0T00		6.8	7.5	9.0	4.5	5.0	NTD31X7R1H685M
KTD500B106M55A0T00		10					NTD31X7R1H106M
KTD101B334M32A0T00	100	0.33	5.0	6.0	3.5	5.0	NTD21X7R2A334M
KTD101B474M32A0T00		0.47					NTD21X7R2A474M
KTD101B684M32A0T00		0.68					NTD21X7R2A684M
KTD101B105M32A0T00		1.0					NTD21X7R2A105M
KTD101B155M43A0T00		1.5	6.5	6.5	4.0	5.0	NTD30X7R2A155M
KTD101B225M43A0T00		2.2					NTD30X7R2A225M
KTD101B335M55A0T00		3.3	7.5	9.0	4.5	5.0	NTD31X7R2A335M
KTD101B475M55A0T00		4.7					NTD31X7R2A475M

### ◆ Rated Ripple Current

Size code:	32	43	55
Ripple current:	0.3Arms	0.8Arms	1.0Arms

### ◆ APPLICATIONS

- Smoothing circuits of DC-DC converters
- On-board power supplies
- Voltage regulators for computers
- Noise suppressors for various kinds of equipments
- High reliability equipment



### ◆ NEW PART NUMBERING SYSTEM

K TD 101 B 225 M 43 A0 T 00  
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

- (1) Category: K=Multilayer Ceramic Capacitors
- (2) Series code: TD=NTD Series
- (3) Rated voltage code: 101=100Vdc
- (4) Temperature characteristics code: B=X7R
- (5) Rated capacitance code: 225=2.2μF

- (6) Capacitance tolerance: M=±20%
- (7) Size code: 43=L(6.5)×W(6.5)
- (8) Terminal code: A0= Straight Leads
- (9) Taping code: T= Taping, B= Bulk
- (10) Supplement code: 00= Standards

Specifications are subject to change without notice.