

NTP Series X7R, Metal Cap Type Multilayer Ceramic Capacitors

◆ FEATURES

- Large capacitance by small size
- Excellent noise absorption
- High permissible ripple current capability
- Excellent temperature cycle durability and most suitable for aluminum substrates.
- For reflow soldering



◆ SPECIFICATIONS

- Operating temperature range: -55 to +125°C
- Rated voltage range: 25Vdc, 50Vdc and 100Vdc
- Rated capacitance range: 25Vdc; 15 to 47μF
50Vdc; 6.8 to 22μF
100Vdc; 2.2 to 6.8μF
- Capacitance tolerance: M (±20%)
- Temperature characteristics: X7R (EIA)

◆ RATINGS and SIZES

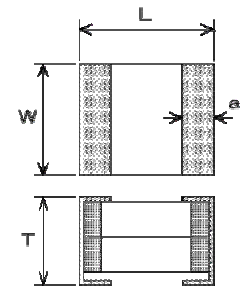
New Part No.	Voltage (Vdc)	Cap. (μF)	Dimensions (mm)				Ref. old part No.
			L	W	T	a	
KTP250B156M432AT00	25	15	4.8±0.4	3.5±0.3	5.5	1.3±0.3	NTP50X7R1E156M002
KTP250B226M551AT00		22	6.0±0.4	5.0±0.3	3.5	1.3±0.3	NTP60X7R1E226M001
KTP250B336M552AT00		33	6.0±0.4	5.0±0.3	5.6	1.3±0.3	NTP60X7R1E336M002
KTP250B476M552AT00		47					NTP60X7R1E476M002
KTP500B685M432AT00	50	6.8	4.8±0.4	3.5±0.3	5.5	1.3±0.3	NTP50X7R1H685M002
KTP500B106M551AT00		10	6.0±0.4	5.0±0.3	3.5	1.3±0.3	NTP60X7R1H106M001
KTP500B156M552AT00		15	6.0±0.4	5.0±0.3	5.6	1.3±0.3	NTP60X7R1H156M002
KTP500B226M552AT00		22					NTP60X7R1H226M002
KTP101B225M432AT00	100	2.2	4.8±0.4	3.5±0.3	5.5	1.3±0.3	NTP50X7R2A225M002
KTP101B335M551AT00		3.3	6.0±0.4	5.0±0.3	3.5	1.3±0.3	NTP60X7R2A335M001
KTP101B475M552AT00		4.7	6.0±0.4	5.0±0.3	5.6	1.3±0.3	NTP60X7R2A475M002
KTP101B685M552AT00		6.8					NTP60X7R2A685M002

◆ Rated Ripple Current

Size code:	43	55
Ripple current:	1.5Arms	3.0Arms

◆ APPLICATIONS

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



◆ NEW PART NUMBERING SYSTEM

K TP 101 B 685 M 55 2A T 00
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

- (1) Category: K=Multilayer Ceramic Capacitors
- (2) Series code: TP=NTP Series
- (3) Rated voltage code: 101=100Vdc
- (4) Temperature characteristics code: B=X7R
- (5) Rated capacitance code: 685=6.8μF

- (6) Capacitance tolerance: M=±20%
- (7) Size code: 55=L(6.0)×W(5.0)
- (8) Terminal code: 2A= 2-element
- (9) Taping code: T= Taping, B= Bulk
- (10) Supplement code: 00= Standards