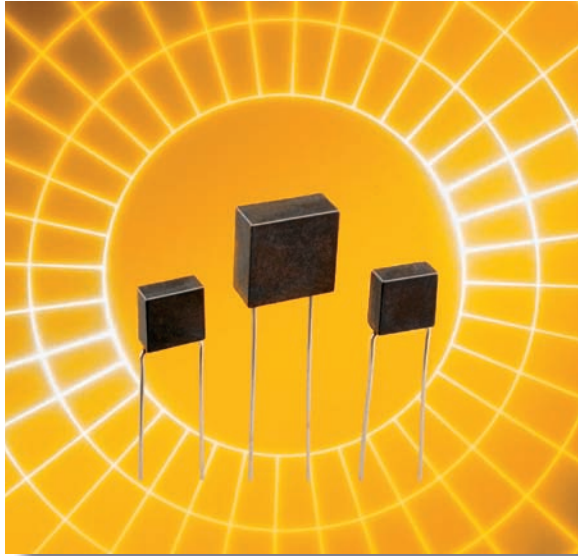


## 250°C RATED RADIAL LEADED CAPACITORS



### KEY FEATURES

- For Use at Temperatures Up to 250°C
- Rated Working Voltages from 50V to 100V
- Rugged Premolded Case with Hi-Temp Epoxy Fill
- Compact MLC Designs Utilizing Military Grade Ceramics
- Custom Sizes, Higher Voltages and Values Available

### APPLICATIONS

- For Use in High Temperature Applications, Such as:
  - Oil Well Logging (Downhole)
  - Geophysical Probes
  - Jet Engine Controls

### CAPACITANCE VS. VOLTAGE

Size Code	T (max ")	X7R Max Capacitance		NPO Max Capacitance	
		50V	100V	50V	100V
<b>T2C</b>	<b>0.100</b>	.180 $\mu$ F	.100 $\mu$ F	.015 $\mu$ F	.010 $\mu$ F
<b>T3A</b>	<b>0.100</b>	.820 $\mu$ F	.390 $\mu$ F	.056 $\mu$ F	.033 $\mu$ F
<b>T3B</b>	<b>0.150</b>	1.00 $\mu$ F	.820 $\mu$ F	.082 $\mu$ F	.056 $\mu$ F
<b>T5A</b>	<b>0.100</b>	2.20 $\mu$ F	1.20 $\mu$ F	.180 $\mu$ F	.100 $\mu$ F
<b>T5B</b>	<b>0.150</b>	3.90 $\mu$ F	2.70 $\mu$ F	.270 $\mu$ F	.220 $\mu$ F

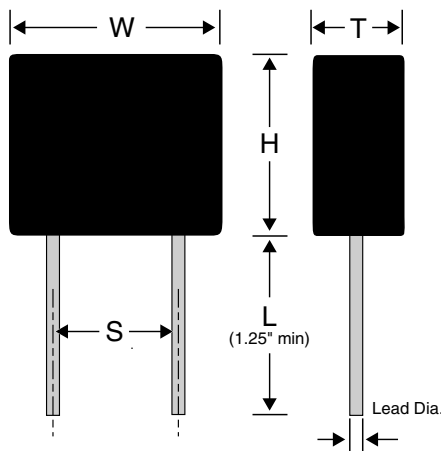
### DIELECTRIC CHARACTERISTICS

	Hi-Temp X7R (H) Dielectric	Hi-Temp NPO (P) Dielectric
TEMPERATURE COEFFICIENT	+15% , -55% max, -55 to 250°C	0 $\pm$ 60 ppm / °C , -55 to 250°C
CAP DROP AT 250°C	minus 55% max	minus 1.5% max
DISSIPATION FACTOR	.025 (2.5%) max, 1KHz, 25°C	.001 (0.1%) max, 1KHz, 25°C
INSULATION RESISTANCE @25°C	1000 $\Omega$ F or 100 G $\Omega$ , whichever is less @ 25°C, WVDC	1000 $\Omega$ F or 100 G $\Omega$ , whichever is less @ 25°C, WVDC
INSULATION RESISTANCE @200°C	0.1 $\Omega$ F or 10 M $\Omega$ , whichever is less @ 250°C, WVDC	0.1 $\Omega$ F or 10 M $\Omega$ , whichever is less @ 250°C, WVDC
DIELECTRIC STRENGTH	2.5 X WVDC, 25°C, 50 mA max	2.5 X WVDC, 25°C, 50 mA max
TEST PARAMETERS	1KHz $\pm$ 50Hz, 1.0 $\pm$ 0.2 VRMS, 25°C	1KHz $\pm$ 50Hz, 1.0 $\pm$ 0.2 VRMS, 25°C

## MECHANICAL CHARACTERISTICS

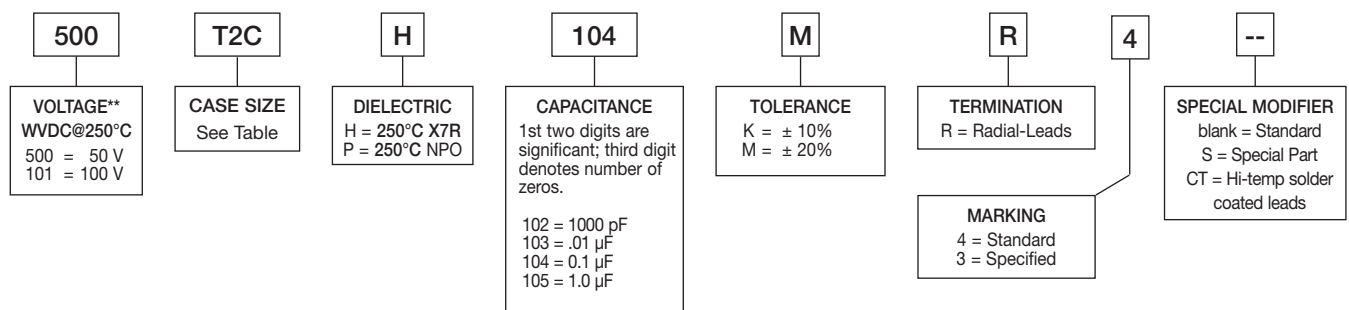
Size Code	T (max)		W (max)		H (max)		S (±.030")		Lead Dia. (±.002") *	
	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.
<b>T2C</b>	2.54	<b>0.100</b>	5.08	0.200	5.08	0.200	5.08	0.200	0.51	0.020
<b>T3A</b>	2.54	<b>0.100</b>	7.62	0.300	7.62	0.300				
<b>T3B</b>	3.81	<b>0.150</b>								
<b>T5A</b>	2.54	<b>0.100</b>	12.70	0.500	12.70	0.500	10.16	0.400	0.64	0.025
<b>T5B</b>	3.81	<b>0.150</b>								

\* Standard lead material is pure nickel. Optional Hi-temp solder coating (Sn10Pb88Ag2) available.



Consult Factory for Sizes & Voltages Not Shown

## HOW TO ORDER



Example: 500T2CH104MR4 = Rated 50 VDC@125°C, 25VDC@250°C 0.1μF ± 20% Hi-Temp X7R in X7R in T2C case

\*\*Working Voltage (WVDC) is derated 50% at 250°C