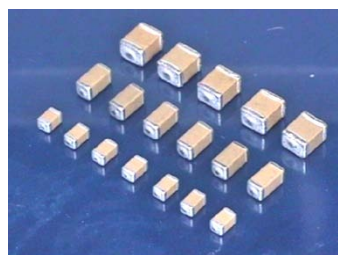


## HTC Series

High Temperature Capacitors

X8R rated to +150°C



### ◆ Features

- ❑ Rated voltages from 25V to 250V.
- ❑ Stable temperature coefficient at temperatures up to 150°C. Near zero loss of capacitance at peak temperature (see chart).
- ❑ Fully RoHS compliant.
- ❑ Available with flexible termination (Super Term) to minimize mechanical / thermal stress effects.

### ◆ Applications

- ❑ Suitable for automotive, oil exploration (drilling and logging) and other demanding high temperature environments and applications.
- ❑ Instrumentation and other equipment circuit operating at high temperatures.

### ◆ Summary of Specifications

Operating Temperature	-55~+150 °C
Rated Voltage	25V ~ 250Vdc
Temperature Coefficient	X8R : $\leq \pm 15\%$ , -55~+150 °C (EIA Class II )
Capacitance Range	180pF ~ 390nF
Dissipation Factor	2.5 % max. at 1KHz 25°C
Insulation Resistance	100GΩ or 1000/C Ω whichever is smaller at 25°C
Dielectric Strength	< 200V : 250% rated voltage for 5 second @ 50mA max. current 200~500V : 150% rated voltage for 5 second @ 50mA max. current
Capacitance Tolerance	$\pm 5\%$ , $\pm 10\%$ , $\pm 20\%$
Ageing	2.0% per decade hr, typical

### ◆ How To Order

HTC	1206	H	103	K	025	T	X
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Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging	Special Requirement
HTC : High Temperature Capacitor	Ex. : 0603 0805 1206 1210	Ex. : X8R	Ex. : 102:10×10 <sup>2</sup> 224:22×10 <sup>4</sup>	Ex. : J : +/- 5% K : +/- 10% M : +/- 20%	Ex. : 025:25Vdc 050:50Vdc 101:100Vdc 251:250Vdc	T : Tape & Reel B : Bulk	Ex. : X: Super Term O: Arc Prevention Coating

