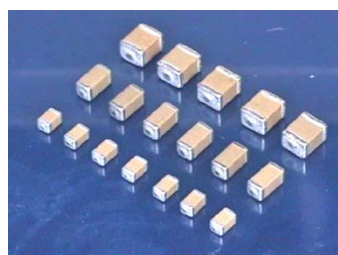


Multilayer Ceramic Chip Capacitors High Temperature MLCC Series

X8R Series



◆ Features

- ❑ Rated voltages from 25V to 250V
- ❑ Stable Temperature Coefficient of 15% at high temperature (up to 150 °C)
- ❑ Fully RoHS Compliant
- ❑ Available with flexible termination (Superterm) to minimize mechanical/thermal stress effects

◆ Applications

- ❑ Suitable for automotive, oil exploration and other demanding high temperature environments and applications
- ❑ Instrumentation and other equipment circuits operating at high temperatures

◆ Summary of Specification

Operation Temperature	-55~+150 °C
Rated Voltage	25V ~ 250Vdc
Temperature Coefficient	X8R : ≤ ± 15% , -55~+150 °C (EIA Class II)
Capacitance Range	1.5nF ~ 100nF
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 201~500V : 150% Rated Voltage for 5 second @ 50mA max. current
Capacitance Tolerance	± 5% , ± 10%
Aging	2.0% per decade hr , Typical

◆ How To Order

HTC

1206

I

103

K

025

T

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
MHC: Middle High Temperature Capacitor	Ex.: 1206 : 3.2×1.6 mm 1210 : 3.2×2.5 mm	I: X8R	Ex.: 102:10×10 ² 224:22×10 ⁴	Ex.: J : +/- 5% K: +/- 10% M: +/- 20%	Ex.: 025:25Vdc 050:50Vdc	T: Taping & Reel B: Bulk

