

HCX Series

[High Cap. X7R]



◆ Features

- ❑ Small size
- ❑ High capacitance in mid-ranges(50 to 100Vdc)
- ❑ Excellent bias,high temperature stability & low Tan
- ❑ Low ESR and excellent ripple current characteristics

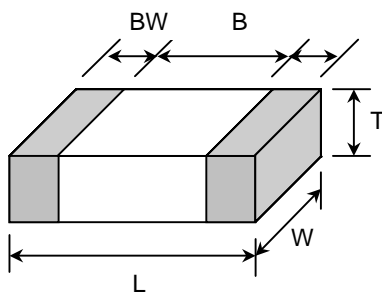
◆ Application

- ❑ Suitable DC-DC Converter (filter), Industrial Control Circuit, Power Supplies, Surge Protection and Custom Application.

◆ Summary of Specification

Operation Temperature	-55~+125
Rated Voltage	50V to 100Vdc
Temperature Coefficient	X7R : $\leq \pm 15\%$ at -55~+125 (EIA Class II)
Capacitance Range	100nF ~ 6.8uF
Dissipation Factor :	2.5% max. at 1KHz 25
Insulation Resistance	10G or 500/C whichever is smaller
Dielectric Strength	250% Rated Voltage for 5 second @ 50mA max. current
Capacitance Tolerance	$\pm 10\%$, $\pm 20\%$
Aging	2.5% per decade of time , typical

◆ Dimension



Unit : mm [inches]

TYPE	L	W	T (max)	B (min)	BW (min)
1210	3.20+/-0.3 [.126+/- .012]	2.50+/-0.2 [.098+/- .008]	2.60 [.102]	1.60 [.063]	0.30 [.012]
1812	4.60+/-0.3 [.181+/- .012]	3.20+/-0.3 [.126+/- .012]	3.00 [.118]	2.50 [.098]	0.30 [.012]
1825	4.60+/-0.3 [.181+/- .012]	6.35+/-0.4 [.250+/- .016]	3.00 [.118]	2.50 [.137]	0.30 [.012]
2220	5.70+/-0.4 [.220+/- .016]	5.00+/-0.4 [.197+/- .016]	3.00 [.118]	3.50 [.137]	0.30 [.012]
2225	5.70+/-0.4 [.220+/- .016]	6.35+/-0.4 [.250+/- .016]	3.00 [.118]	3.50 [.137]	0.30 [.012]

◆ How To Order

C

1812

X

105

K

101

T

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
C:MLCC (Multilayer Ceramic Chip of Capacitor)	Ex.: 1210 : 3.2x2.5 mm 1812 : 4.6x3.2 mm	X: X7R	Ex.: 102:10x10 ² 224:22x10 ⁴ 105:10x10 ⁵	Ex.: K: +/- 10% M: +/- 20%	Ex.: 050:50Vdc 101:100Vdc	T: Taping & Reel B: Bulk

