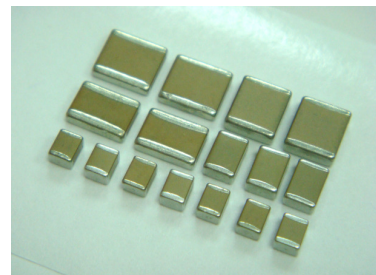




Holy Stone ... an innovation leader in ceramic capacitors!

Multilayer Ceramic Chip Capacitors (MLCC)



HCX Series [High Capacitance X7R]

The HCX series that general purpose have a high temperature and high capacitance and used in by-pass, decoupling and smoothing circuit.

General purpose EIA Class II dielectrics with +/- 15% (X7R) temperature coefficient.

◆ Features

- Rated working voltage of 50 to 100Vdc
- Small size & high capacitance
- Excellent bias, high temperature stability & low Tan δ
- Low ESR and excellent ripple current characteristics
- RoHS compliant

◆ Application

- Smoothing circuit
- DC-DC Converters (filter)
- Industrial Controls
- Power Supplies
- Surge Protection

◆ Summary Specification

Operation Temperature	-55~+125 °C
Capacitance Range	100nF to 10uF
Rated Voltage	50Vdc to 100Vdc
Temperature Coefficient	X7R $\leq \pm 15\%$, -55~+125 °C (EIA Class II)
Dissipation Factor :	2.5% max. at 1KHz 25°C
Insulation Resistance	10G Ω or 500/C Ω whichever is smaller (C in Farad)
Dielectric Strength	Rated Voltage 50V : 250% rated voltage Rated Voltage 100V : 200% rated voltage
Aging	2.5% per decade hr , typical

Detail datasheet is available on HEC web site or contact in location site sales department.
www.holystone.com.tw www.holystonecaps.com

◆ Summary Specification

Operation Temperature :

-55~+125 °C

Size :

1210 to 2225

Rated Voltage :

50V to 100Vdc

Temperature Coefficient :

±15%, -55~+125 °C (EIA Class II)

Aging :

2.5% per decade hr , Typical

Capacitance Range :

100nF ~ 10uF

Dissipation Factor :

2.5% max. at 1KHz

Insulation Resistance :

10GΩ or 500/C Ω whichever is smaller (C in Farad)

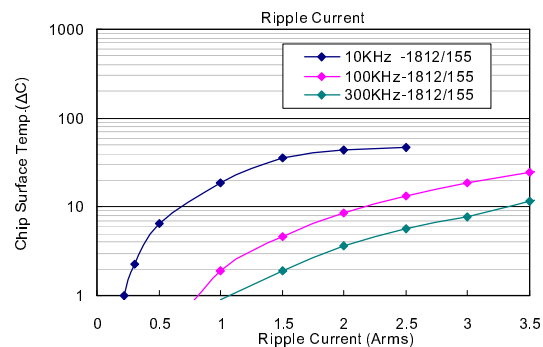
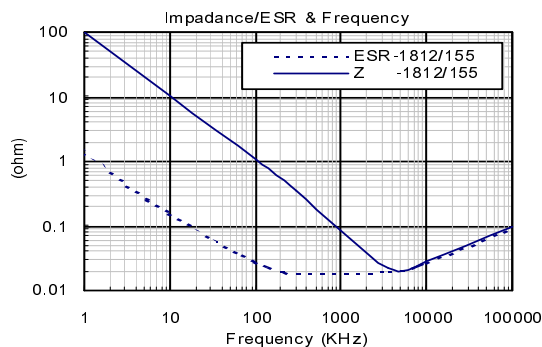
Dielectric Strength :

250% Rated Voltage for 50V & 200% Rated Voltage for 100V

Capacitance Tolerance :

± 10% , ± 20%

◆ Characteristic



◆ Capacitance Scope

Code	WVDC	1210		1812		1825		2220		2225	
		50V	100V	50V	100V	50V	100V	50V	100V	50V	100V
104	100nF	■	■	■	■	■	■				
154	150nF	■	■	■	■	■	■				
224	220nF	■	■	■	■	■	■				
334	330nF	■	■	■	■	■	■				
474	470nF	■	■	■	■	■	■	■	■	■	■
564	560nF	■	■	■	■	■	■	■	■	■	■
684	680nF	■	■	■	■	■	■	■	■	■	■
105	1uF	■	■	■	■	■	■	■	■	■	■
155	1.5uF	■	■	■	■	■	■	■	■	■	■
225	2.2uF	■	■	■	■	■	■	■	■	■	■
335	3.3uF	■	■	■	■	■	■	■	■	■	■
475	4.7uF	■	■	■	■	■	■	■	■	■	■
685	6.8uF	■	■	■	■	■	■	■	■	■	■
106	10uF	■	■	■	■	■	■	■	■	■	■

◆ How To Order

C	1210	X	105	K	101	T
Product Code	Chip Size	Dielectric	Capacitance	Tolerance	Rated Voltage	Packaging
C: MLCC	1210:3.2×2.50 1812:4.6×3.20 1825:4.6×6.35 2220:5.7×5.00 2225:5.7×6.35	X:X7R	224:22x10 ⁴ 105:10x10 ⁵ 106:10x10 ⁶	K: +/- 10% M: +/- 20%	050:50Vdc 101:100Vdc	B: Bulk T: Tapping & Reel



Location in Taiwan

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Location in China

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