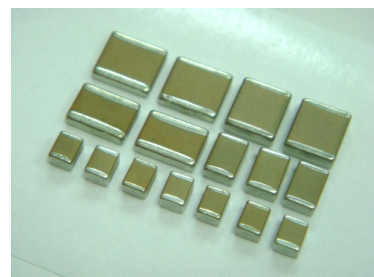




Holy Stone ... an innovation leader in ceramic capacitors!

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)

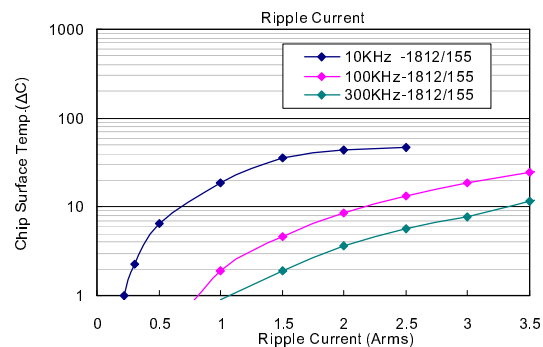
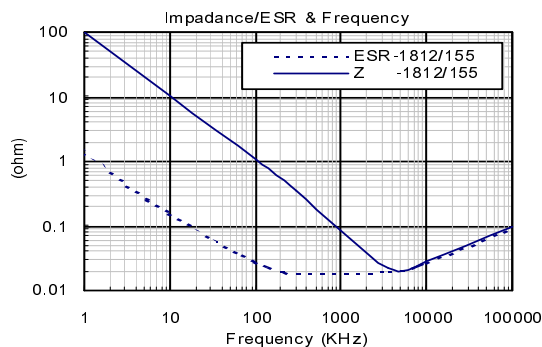
Dielectric Strength :

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



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