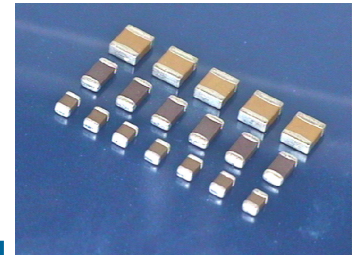




Holy Stone ... an innovation leader in ceramic capacitors!

Multilayer Ceramic Chip Capacitors (MLCC)



VAC Series

[Low Profile Capacitor-Thin Type X7R,X5R,Y5V]

Low profile high capacitance MLCC's ideally suited for height restricted needs

The VAC series that general purpose have a thin body and a high capacitance and used noise suppressor and by pass or decoupling circuit and offered in relatively high capacitance values.

Supporting low profile application sets with varieties of low profile MLCCs (0.95mm max.) .This product is offered in capacitance values from 1.0uF to 22uF in 0805 to 1210 sizes, and voltages from 6.3 Vdc to 25 Vdc. The product is RoHS compliant and withstands up to 260°C peak solder temperature.

◆ Features

- High capacitance & rated voltage with maximum height of 0.95 mm
- Surface Mount Suited for Wave and Reflow Soldering

◆ Application

- For thin profile circuit.
- Suitable FPD device, HDD, CD-RW, LCD device, cellular phone modules and portable device...etc.

◆ Summary Specification

Operation Temperature	X7R:-55~+125 °C ; X5R:-55~+85 °C ; Y5V:-30~+85 °C
Capacitance Range	1.0uF to 22uF
Rated Voltage	6.3Vdc to 25Vdc
Temperature Coefficient	X7R≤15% , -55~+125 °C (EIA Class II)
	X5R ≤15%, -55~+85 °C (EIA Class II)
	Y5V ≤ +22/-82% , -30~+85 °C (EIA Class II)
Insulation Resistance	10GΩ or 500/C Ω whichever is smaller (C in Farad)

◆ Summary Specification

Operation Temperature :

X7R:-55~+125 °C ;X5R:-55~+85 °C ;Y5V:-30~+85 °C

Size :

0603 to 1206

Rated Voltage :

6.3V to 25Vdc

Temperature Coefficient :

X7R \leq \pm 15%, -55~+125 °C (EIA Class II)

X5R \leq \pm 15%, -55~+85 °C (EIA Class II)

Y5V \leq +22/-82%, -30~+85 °C (EIA Class II)

Capacitance Range :

1.0 μ F ~ 22 μ F

Dissipation Factor :

See detail spec.

Insulation Resistance :

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

Dielectric Strength :

250% Rated Voltage for 5 second @ 50mA max. current

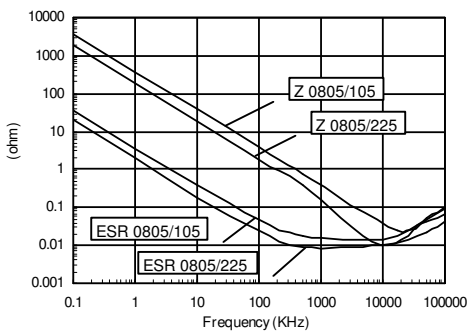
Capacitance Tolerance :

\pm 10% ; \pm 20% ; +80/-20%

◆ Characteristic

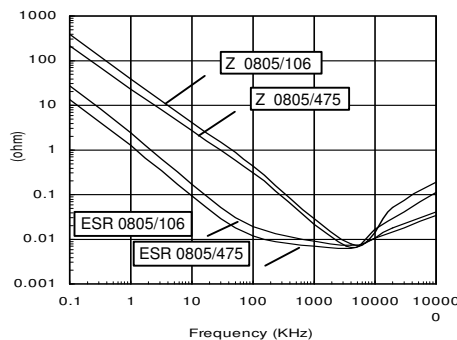
X7R(X) Series

Impedance & ESR Characteristic



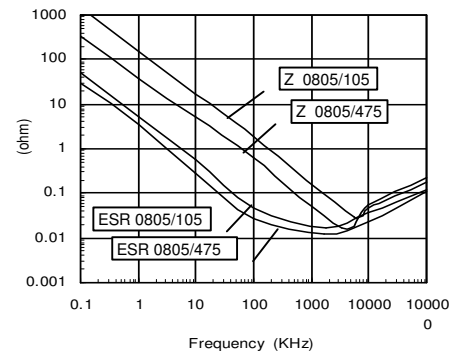
X5R(B) Series

Impedance & ESR Characteristic



Y5V(Y) Series

Impedance & ESR Characteristic



◆ Capacitance Scope

X7R (X) Series				X5R (B) Series												Y5V (Y) Series									
Size	0805		1206		Size	0603			0805				1206					Size	0805			1206			
Code	16V	25V	16V	25V	Code	6.3V	10V	16V	6.3V	10V	16V	25V	6.3V	10V	16V	25V	6.3V	10V	16V	25V	6.3V	10V	16V		
105	B	B	B	B	105	T	T	T	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
155	B	B	B	B	155				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
225	B	B	B	B	225	T	T		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
335					335				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
475					475				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
106					106				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
226					226				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Symbol Code		T		B																					
Thickness (mm)		0.45 \pm 0.05		0.85 \pm 0.1																					

■ Other dimensions, capacitance values and voltages rating are available. Please contact HEC.

◆ How To Order

VAC	1206	B	106	M	007	T
Product Code	Chip Size	Dielectric	Capacitance	Tolerance	Rated Voltage	Packaging
VAC:	0603: 1.6x0.80	X:X7R	105: 10x10 ⁵	K: +/- 10%	007: 6.3Vdc	B: Bulk
Low Profile	0805: 2.0x1.25	B:X5R	106: 10x10 ⁶	M: +/- 20%	010: 10Vdc	T: Tapping & Reel
Capacitors	1206: 3.2x1.60	Y:Y5V		Z: +80/-20%	016: 16Vdc	
					025: 25Vdc	



Location in Taiwan

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Fax: 886-2-27987181

www.holystone.com.tw

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Fax: 951-696-4301

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Location in China

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