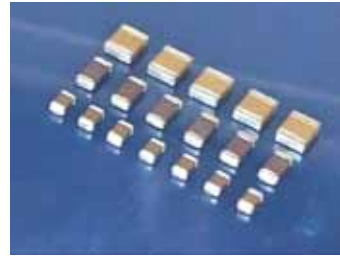


VAC Series

[Low Profile X5R, Y5V Capacitors]



Supporting low profile application sets with varieties of low profile MLCCs

◆ Features.

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

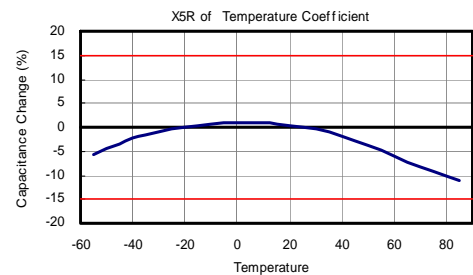
◆ Application

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

◆ Summary of Specification

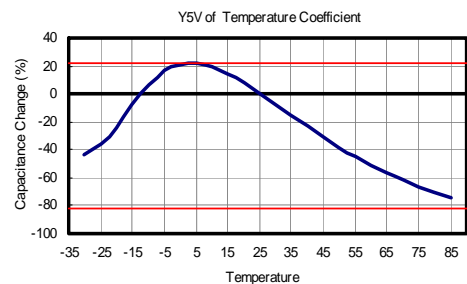
X5R Dielectric Characteristic

Operation Temperature : -55~+85
 Temperature Coefficient : $\pm 15\%$, -55~+85 (EIA Class)
 Capacitance Range 1uF to 22uF
 Dissipation Factor : See Spec.
 Insulation Resistance : 10G or 500/C whichever is smaller
 Aging : 2.5 % per decade hrr , typical
 Dielectric Strength : 250% Rated Voltage



Y5V Dielectric Characteristic

Operation Temperature : -30~+85
 Temperature Coefficient : +22/ -82 % , -30~+85 (EIA Class)
 Capacitance Range 1uF to 10uF
 Dissipation Factor : See Spec.
 Insulation Resistance : 10G or 500/C whichever is smaller
 Aging : 7.0 % per decade hr , typical
 Dielectric Strength : 250% Rated Voltage



◆ How To Order

VAC

1206

B

106

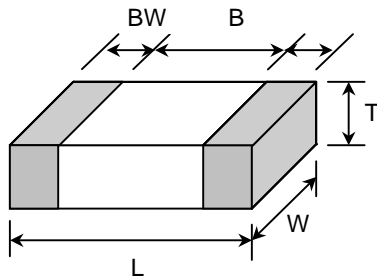
K

007

T

Product Code	Chip Size	Dielectric	Capacitance Unit : pF	Tolerance	Rated Voltage	Packaging
Low Profile MLCC (Thin Type)	Ex.: 0805 : 2.0x1.25 mm 1206 : 3.2x1.60 mm	Ex.: B:X5R Y:Y5V	Ex.: 475:47x10 ⁵ 106:10x10 ⁶	Ex.: K: +/- 10% M: +/- 20% Z : +80/-20%	Ex.: 007: 6.3Vdc 025: 25Vdc	T: Taping & Reel B: Bulk

◆ Dimension



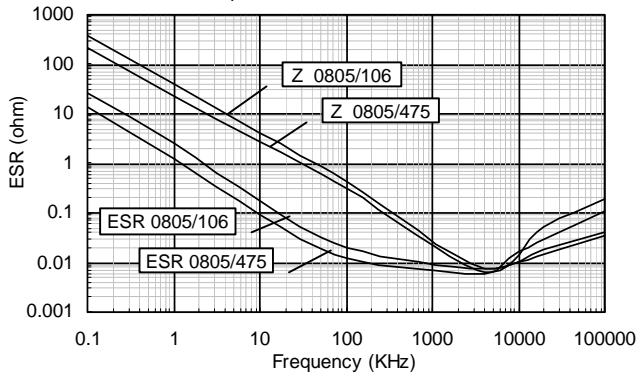
Unit : mm [inches]

TYPE	L	W	T (max)	B (min)	BW (min)
0805	2.00+/-0.2 [.079+/-0.012]	1.25+/-0.2 [.049 +/-0.008]	0.95 [.037]	0.70 [.028]	0.20 [.008]
1206	3.20+/-0.3 [.126+/-0.012]	1.60+/-0.2 [.063+/-0.008]	0.95 [.037]	1.50 [.059]	0.30 [.012]
1210	3.20+/-0.3 [.126+/-0.012]	2.50+/-0.2 [.098+/-0.008]	0.95 [.037]	1.60 [.063]	0.30 [.012]

◆ Characteristic

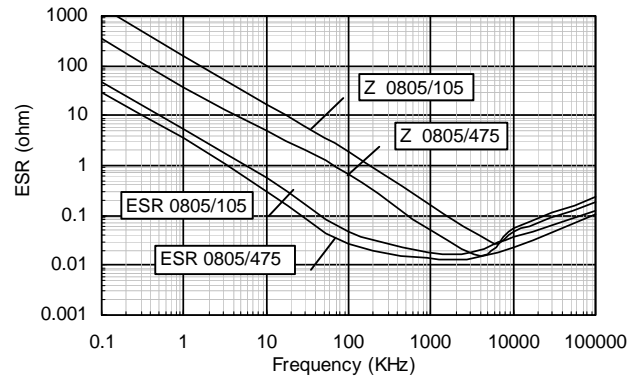
X5R(B) Series

Impedance & ESR Characteristic



Y5V(Y) Series

Impedance & ESR Characteristic



◆ Capacitance Range

X5R (B) Series										Y5V (Y) Series								
Size	0805				1206				1210		Size	0805		1206				
Code	VDC	6.3V	10V	16V	25V	6.3V	10V	16V	25V	10V	16V	25V	Code	VDC	6.3V	10V	6.3V	10V
105	1uF												105	1uF				
155	1.5uF												155	1.5uF				
225	2.2uF												225	2.2uF				
335	3.3uF												335	3.3uF				
475	4.7uF												475	4.7uF				
106	10uF												106	10uF				
226	22uF												226	22uF				

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