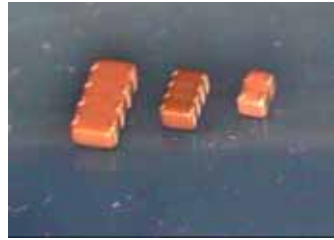


MCA Series

[Multilayer Capacitor Array]



The capacitor array combines four separate multilayer ceramic capacitors. It's can reduction PCB space and improve placement efficiency compared to 2xMLCC & 4xMLCC.

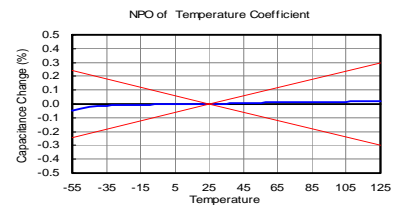
◆ Features

- ❑ Small size with 2xMLCC & 4xMLCC capacitor
- ❑ Space saving for high density placing requirement
- ❑ Improve placement efficiency
- ❑ Suitable Cellular, Pagers, I/O Port, Mother Board and General Electronic Equipment.

◆ Summary of Specification

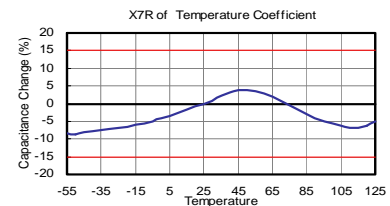
NPO Dielectric Characteristic

Temperature Coefficient : $\pm 30\text{ppm/}^\circ\text{C}$, -55~+125
 Capacitance Range : 10pF to 470pF
 Dissipation Factor : more than 30pF: Q 1000 (0.001)
 30pF& below : Q 400+20C C:pF
 Insulation Resistance : 10G or 500/C whichever is smaller
 Dielectric Strength : 250% Rated Voltage



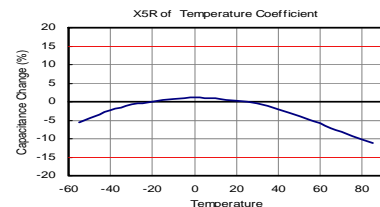
X7R Dielectric Characteristic

Temperature Coefficient : $\pm 15\%$, -55~+125
 Capacitance Range : 180pF to 1.0uF
 Dissipation Factor : See table 1.
 Insulation Resistance : 10G or 500/C whichever is smaller
 Dielectric Strength : 250% Rated Voltage



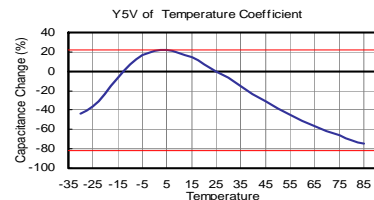
X5R Dielectric Characteristic

Temperature Coefficient : $\pm 15\%$, -55~+85
 Capacitance Range : 100nF to 2.2uF
 Dissipation Factor : See table 1.
 Insulation Resistance : 10G or 500/C whichever is smaller
 Dielectric Strength : 250% Rated Voltage



Y5V Dielectric Characteristic

Temperature Coefficient : +22/ -82 % , -30~+85
 Capacitance Range : 10nF to 1.0uF
 Dissipation Factor : See table 2.
 Insulation Resistance : 10G or 500/C whichever is smaller
 Dielectric Strength : 250% Rated Voltage



◆ How To Order

CA

4

B

1C

105

M

T

Product Code	Chip Size	Dielectric	Rated Voltage	Capacitance Unit : pF	Tolerance	Packaging
CA: MLCC Array	Ex.: 6 : 1206 3.2×1.6 mm 5 : 0805 2.0×1.25 mm 4 : 0504 2.0×1.25 mm	Ex.: N: NPO X: X7R B: X5R Y: Y5V	Ex.: 1J : 6.3Vdc 1A: 10Vdc 1C: 16Vdc 1E: 25Vdc 1H: 50Vdc	Ex.: 102: 10×10 ² 473: 47×10 ³ 104: 10×10 ⁴	Ex.: K : +/- 10% M: +/- 20% Z : +80/-20 %	T: Taping & Reel B: Bulk

