

CERAMIC CHIP CAPACITORS X7R (BX) DIELECTRIC

APPLICATION

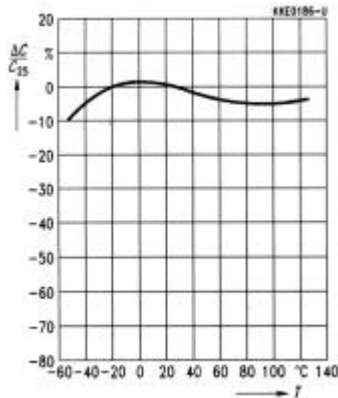
X7R dielectric properties; suited for by –pass and coupling purposes, filtering, frequency discrimination, DC blockage, and as voltage transient suppression elements.

General Specification

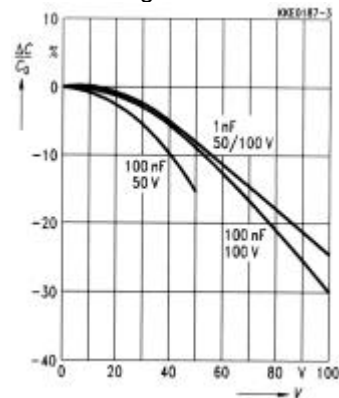
- Operating temperature range $-55 \sim +125$
- Capacitance Range: 100pF ~ 0.47uF(1.0 \pm 0.2 Vrms, 1kHz)
- Capacitance Tolerance: Preferred $\pm 10\%$, $\pm 20\%$
others available: $\pm 5\%$, +80 –20%
- Voltage Ratings, 25VDC, 50VDC, 100VDC
- Dissipation Factor (1 KHz, 1.0Vrms, 25) 2.5% Max
- Insulation resistance (rated voltage applied at 25) 100,000 M Ω or 1,000 Ω -F min
- Dielectric strength $>2.5X$ WV. DC.

Characteristics

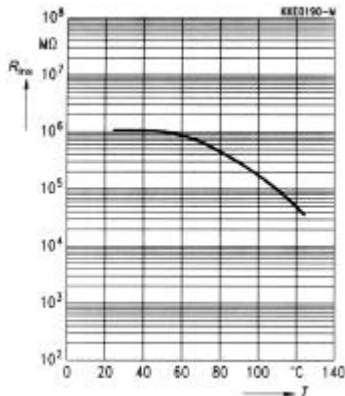
Capacitance change C/C_{25} versus temperature T



Capacitance change C/C_0 versus superimposed dc voltage V



Insulation resistance R_{ins} versus Temperature T



Capacitance change C/C_1 versus

