

CERAMIC CHIP CAPACITORS Y5V DIELECTRIC

APPLICATION

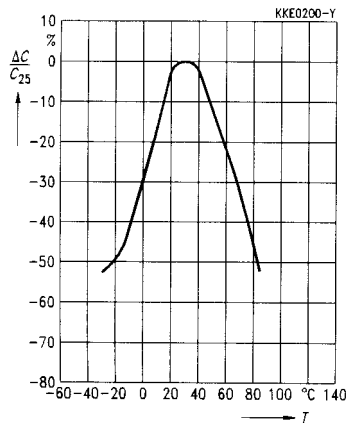
The Hi-K (Y5V) dielectrics deliver high capacitance density and are ideally suited for applications where space is at a premium, or as replacement for tantalum capacitors. Typical applications include use as by-pass or decoupling elements. Best performance is obtained at or near room temperature, with low D.C. bias.

General Specification

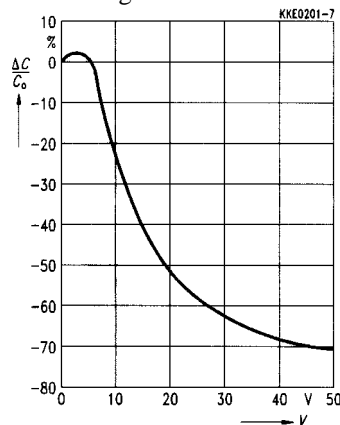
- Operating temperature range $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Capacitance Range: 2200pF \sim 10.0 μ F
- Capacitance Tolerance: $\pm 20\%$, -20% +80%
- Voltage Ratings: 10VDC, 16VDC, 25VDC, 50VDC
- Dissipation Factor (1 KHz, 0.5Vrms, 25 $^{\circ}$ C) 5% Max(50V), 7.5% Max(25V), 9% Max(16V), 15% Max(10V)
- Insulation resistance (rated voltage applied at 25 $^{\circ}$ C) 10,000 M Ω or 500 Ω -F min
- Dielectric strength $>2.5\text{X WV. DC.}$

Characteristics

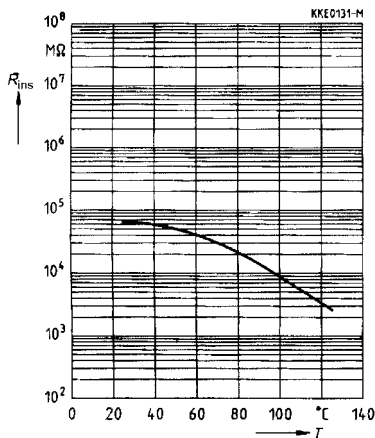
Capacitance change $\Delta C/C_{25}$ versus temperature T



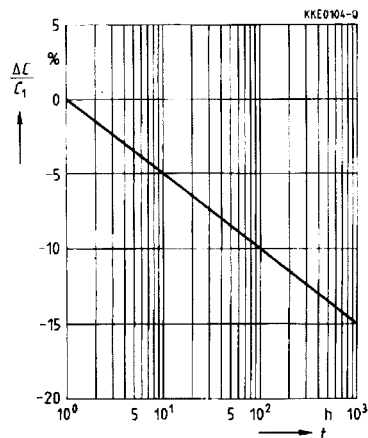
Capacitance change $\Delta C/C_0$ versus superimposed dc voltage V



Insulation resistance R_{ins} versus Temperature T



Capacitance change $\Delta C/C_1$ versus





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