

CODIGO	DESCRIPCION
C1206-XX-Y5V	Capacitor ceramico SMD Y5V 50V

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

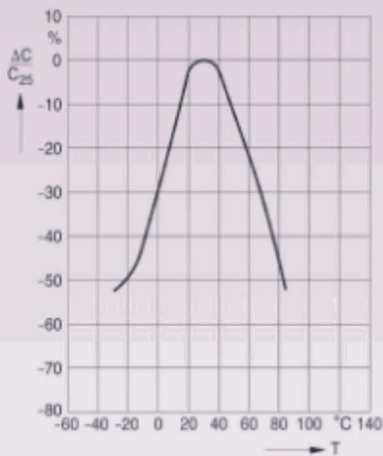
- Operating temperature range: -30°C ~ +85°C
- Temperature coefficient: +22-82% maximum
- Capacitance Range: 10nF ~ 100uF
- Capacitance Tolerance: ±20% , +80-20% (Test condition : C ≤ 10uF, 1±0.2Vrms, 1KHz, C > 10uF, 0.5V±0.2Vrms, 120Hz)
- Rated Voltage: 6.3VDC, 10VDC, 16VDC, 25VDC, 50VDC
- Dissipation Factor: 5% Max(50V), 7% Max(16/25V), 10% Max(10/6.3V) (Test condition: same as Capacitance)

EXCEPTION : see details at <http://www.hitano.com.tw/pdf/MLCCApproval.pdf>

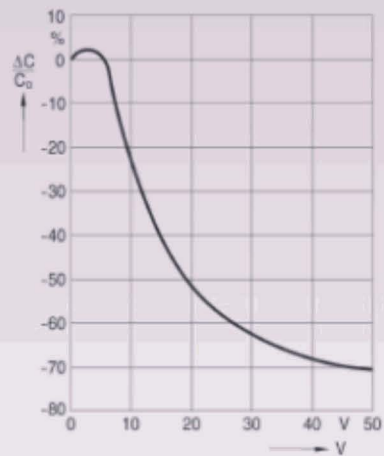
- Insulation resistance: 10,000 MW or 100 W-F min, whichever is less. (Test condition: rated voltage applied at 25°C)
- Dielectric strength : >250% of Rated Voltage, duration 1~ 5 seconds, Charging and discharging current less than 50mA.

Characteristics

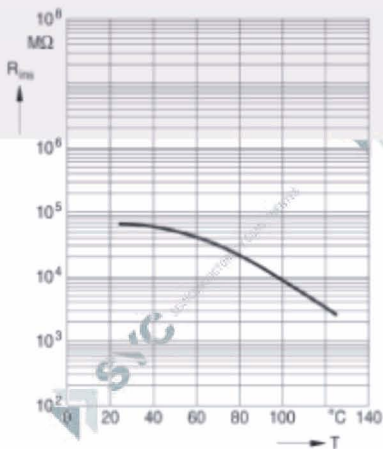
Capacitance change $\Delta C/C_{25}$ versus temperature T



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 time (aging rate)

