

Y5V 介质电容器 Y5V DIELECTRIC CAPACITORS

Y5V類介質電容器是一種普通用途的電容器，在使用溫度(-30~+85°C)範圍內容值變化率較大，+22/-82%以內，具有高介電常數，可以用小的尺寸做大容量的電容。

Y5V formulations are for general-purpose use in a limited temperature range. They have a wide temperature characteristic of +22 / -82% capacitance change over the operating temperature range of -30 to +85 Y5V's high dielectric constant allows the manufacture of the highest capacitance value in given case size.

主要性能參數 PERFORMANCE CHARACTERISTICS

容值範圍 Capacitance Range	1000pF~10nF
容差 Capacitance Tolerance	±80%, -20%.
使用溫度 Operating Temperature Range	-30~85°C
溫度特性 Temperature Characteristics	±22%/-82%以內 within±22%/-82%
額定電壓 Rated Voltage	10V,16V,25V ,50v
損耗 Dissipation Factor	額定電壓10V時, DF ≤12.50% For 10V: DF≤12.50% 額定電壓16V, DF ≤9% For 16V :9.0% max 額定電壓25V以上時, DF ≤5.0% For 25V min: 5.0%max
絕緣電阻 Insulation Resistance	100GΩ或500Ω 以上, 取最小值以上 100G Ω min.or500 Ω F min whichever is less
耐壓 Dielectric Withstanding Voltage	2.5倍額定電壓 250% rated voltage
測試電壓 Test Voltage	1±0.2Vrms
測試頻率 Test Frequency	1KHz

尺寸與容值範圍 CAPACITANCE RANGE VS.CHIP SIZE

尺寸 Size	10V	16V	25V	50V
0402	1.0nF~0.33 μ F	1.0nF~0.1 μ F	1.0nF~0.33 μ F	1.0nF~10nF
0603	2.2nF~1.0 μ F	2.2nF~0.68 μ F	2.2nF~0.22 μ F	2.2nF~0.1 μ F
0805	10nF~4.7 μ F	10nF~2.2 μ F	10nF~1.0 μ F	10nF~0.47 μ F
1206	10nF~10 μ F	10nF~4.7 μ F	10nF~2.2 μ F	10nF~1.0 μ F

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特征曲線 TYPICAL CHARACTERISTIC CURVES

