

**Y5V DIELECTRIC CAPACITORS**

**FEATURES**

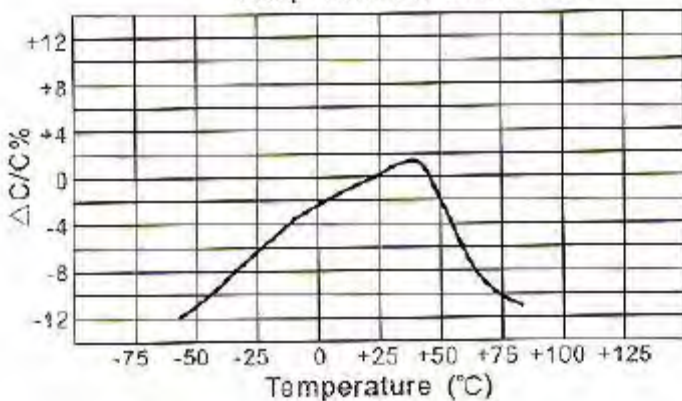
Y5V formulations are for general purpose use in a limited temperature range. They have a wide Temperature characteristics of + 22/-82% capacitance change over the operating temperature range Of -30 to 85°C. Y5V's high dielectric constant allows the manufacturer of the highest capacitance

Value in given case size.

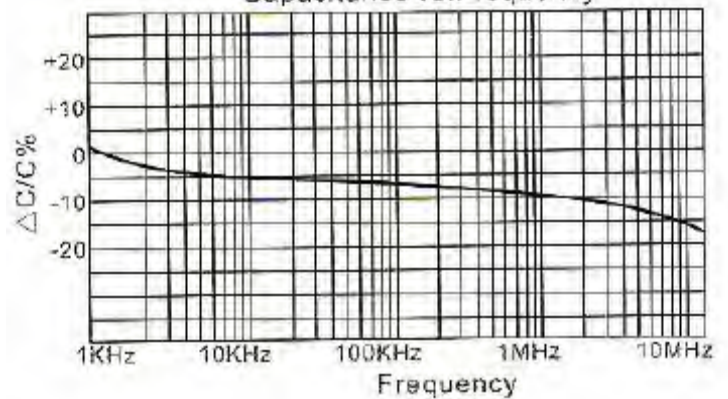
Performance Characteristics

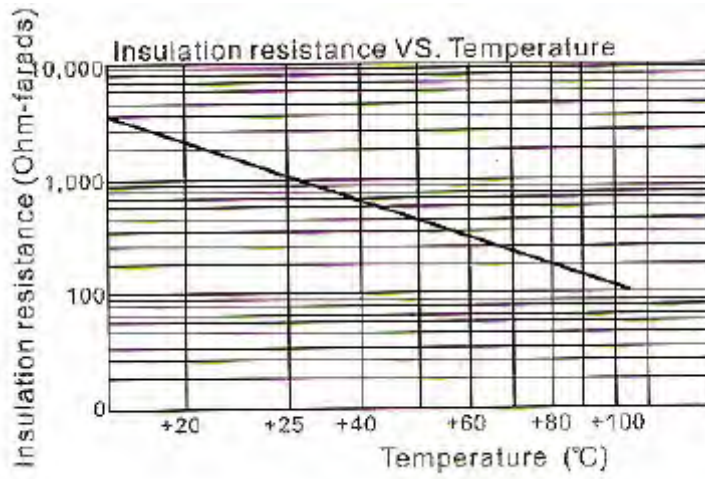
<b>Capacitance Range</b>	1000pF ~ 22uF
<b>Capacitance tolerance</b>	± 80%,/- 20%
<b>Operating temperature range</b>	-30°C ~ +85° C
<b>Temperature coefficient</b>	within +22&/-82%
<b>Rated voltage</b>	10V,16V,25V,50V
<b>Dissipation factor and “Q”</b>	For ≤ 10V: DF ≤ 12.5% max For 25V min: DF ≤ 7% max
<b>Insulation resistance</b>	10GΩ min. or 500ΩF min. which ever is less
<b>Dielectric withstanding voltage</b>	250% rated voltage
<b>Test voltage</b>	≤10 uF , 1 ±0.2 Vrms >10 uF , 0.5 ±0.1 Vrms
<b>Test frequency</b>	≥10uF: 1 KHZ ± 10% >10uF, 120Hz ± 24Hz

Temperature characteristic



Capacitance vs.Frequency





Capacitance range VS. Chip Size

Size	6.3V	10V	16V	25V	50V
0402	1.0nF ~ 1.0 uF	1.0pF ~ 0.1uF	1.0F ~ 0.1uF	1.0nF ~ 33 nF	1.0F ~ 10 nF
0603	2.2nF ~ 2.2uF	2.2nF ~ 2.2 uF	2.2nF ~ 1.0 uF	2.2nF ~0.22 uF	2.2nF ~ 0.1uF
0805	10nF ~ 10uF	10nF ~ 4.7uF	10nF ~ 2.2 uF	10nfF ~ 1.5 uF	10nfF ~ 1.5 uF
1206	100nF ~ 22uF	10nF ~ 10uF	10nF ~4.7 uF	10nF ~ 2.2 uF	10nF ~ 2.2 uF