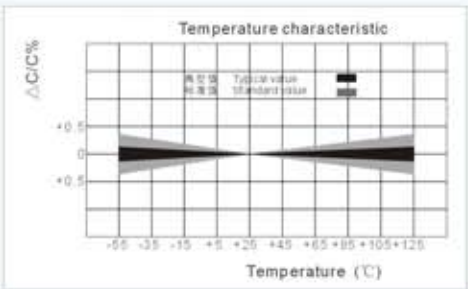
FEATURES

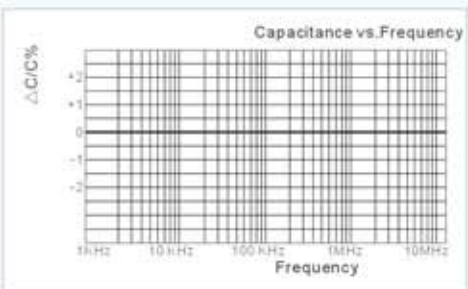
COG(NPO) is the most popular for mulation of the "temperature compensation",capacitor According to EIA,it is Class I dielectric And temperature coeficient is within 0±30ppm/℃.Typical capacitance change with frequency and voltage is negligible at less than±0.05%.COG(NPO) formulations show no aging characteristics.COG(NPO)formulations usually have a "Q" in excess of 1000 and shows little capacitance.

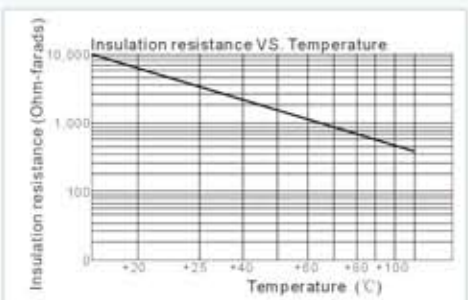
PERFORMANCE CHARACTERISTICS

Capacitance range	0.2pF~10nF
Capacitance tolerance	Preferred ±5%,±10%. For values≤10pF,Preferred tolerance is ±0.5pF,also available ±0.25pF
Operating temperature range	-55℃ ~+125℃
Temperature coefficient	0±30ppm/℃
Rated voltage	25V,50V,100V
Dissipation factor and "Q"	$C_R \geq 30pF, Q \geq 1000$ $C_R < 30pF, Q \geq 400+20C_R$
Insulation resistance	more than 10GΩ
Dielectric withstanding voltage	250% rated voltage
Test voltage	1±0.2Vrms
Test frequency	For values>1000pF:1KHz±10% For values≤1000pF:1MHz±10%

TYPICAL CHARACTERISTIC CURVES







CAPACITANCE RANGE VS.CHIP SIZE

尺寸 Size	25V	50V	100V
0402	0.2pF~470pF	0.2pF~1.0nF	--
0603	0.2pF~2.2nF	0.2pF~1.5nF	0.2pF~1.0nF
0805	0.5pF~10nF	0.5pF~2.2nF	0.5pF~1.5nF
1206	0.5pF~10nF	0.5pF~4.7nF	0.5pF~2.2nF