

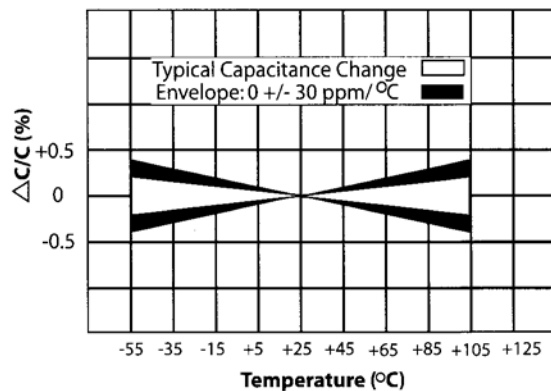
TESTING

Test Frequency: 1KHz @ 25°C (except 1MHz for NPOs less than 100pF).

Dielectric	NPO	X7R	Z5U	Y5V
Operating Temperature	-55°C ~ +125°C	-55°C ~ +125°C	+10°C ~ +85°C	-30°C ~ +85°C
Temperature Characteristic	0 ± 30ppm/°C	±15%	+22%, -56%	+22%, -82%
Dissipation Factor	0.15%	2.5%	4%	7% (<25V), 5% (≥25V)
Insulation Resistance	100KMΩ minimum or 1KMΩ x uF, whichever is less.	100KMΩ minimum or 1KMΩ x uF, whichever is less.	100KMΩ minimum or 1KMΩ x uF, whichever is less.	100KMΩ minimum or 1KMΩ x uF, whichever is less.
Dielectric Strength	250% of Vr	250% of Vr	200% of Vr	200% of Vr

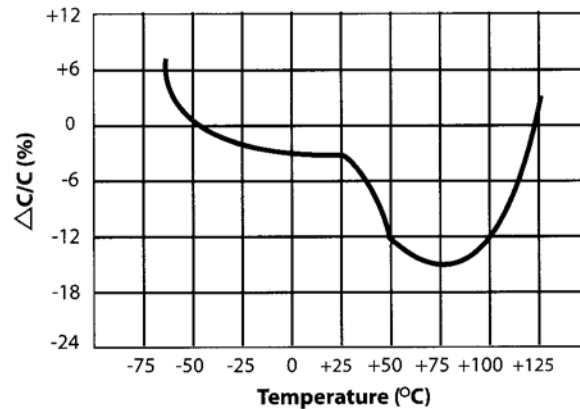
NPO

Temperature Coefficient



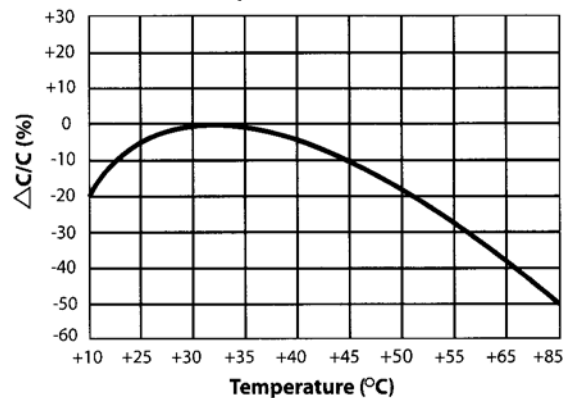
X7R

Temperature Coefficient



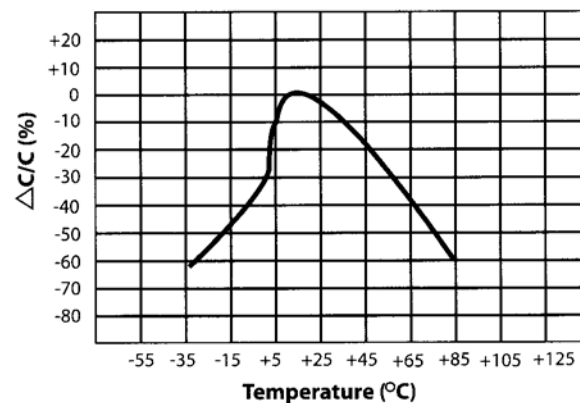
Z5U

Temperature Coefficient



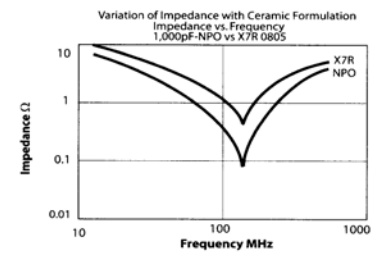
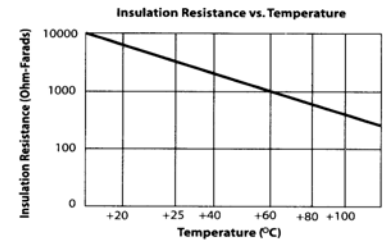
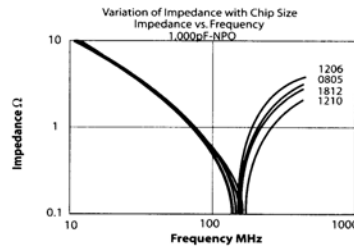
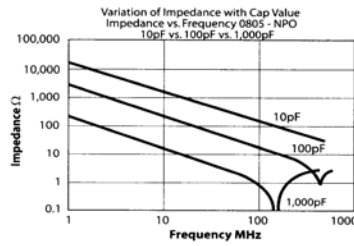
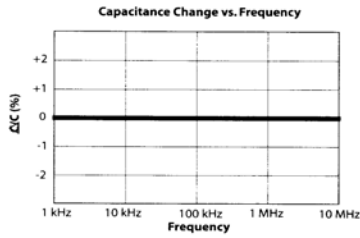
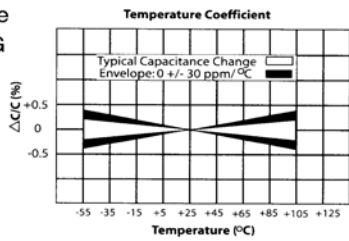
Y5V

Temperature Coefficient

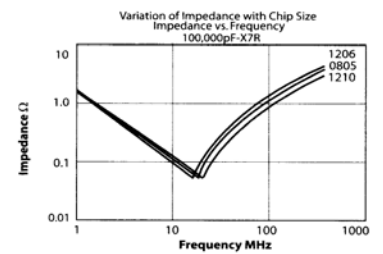
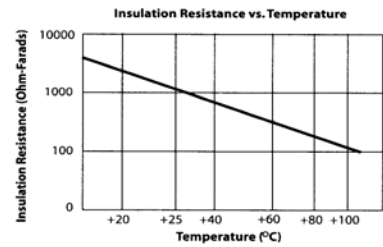
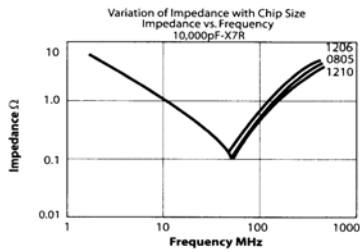
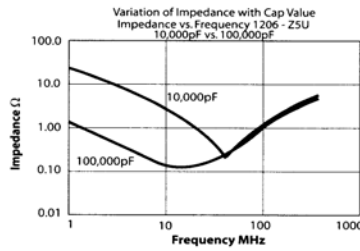
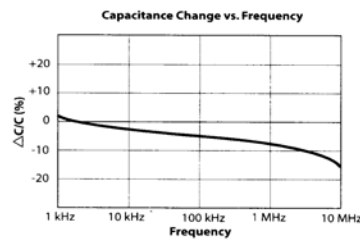
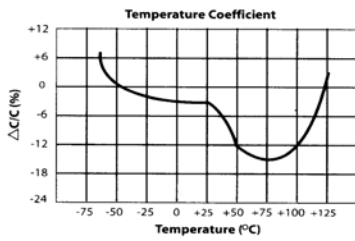


DIELECTRIC CHARACTERISTICS

Ultra Stable NPO/COG



Stable X7R



General Purpose Z5U

