**Ceramic Capacitors** 

## MONOLITHIC CERAMIC CAPACITORS REFERENCE DATA

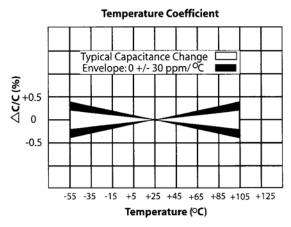
## TESTING

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

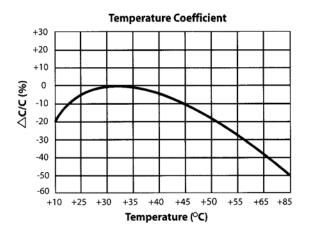
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Dielectric	NPO	X7R	Z5U	Y5V
Operating Temperature	-55°C ~ +125°C	-55°C ~ +125°C	+10°C ~ +85°C	-30°C ~ +85°C
Temperature Characteristic	0 ± 30ppm/°C	±15%	+22%, -56%	+22%, -82%
Dissipation Factor	0.15%	2.5%	4%	7% (<25V), 5% (≥25V)
Insulation Resistance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

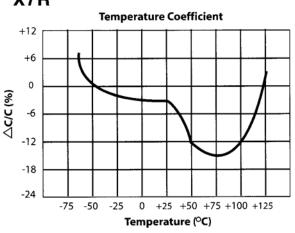
NPO



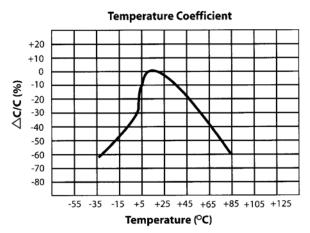
Z5U



X7R



Y5V

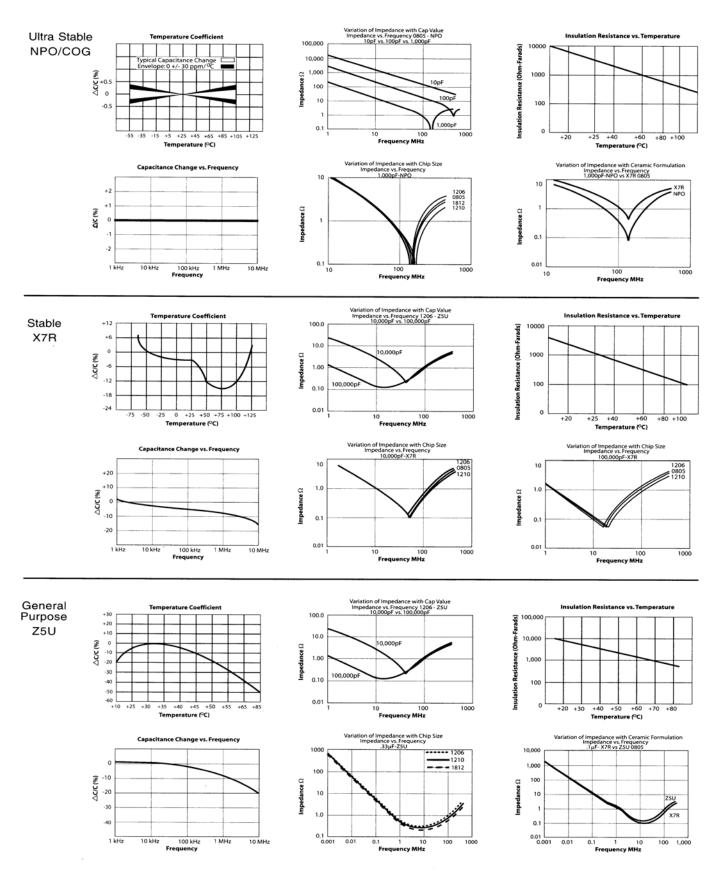


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**Tecate Group** 2006/09/05 Rev.01

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## DIELECTRIC CHARACTERISTICS



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