

# HIGH TEMPERATURE CERAMIC CAPACITORS

Consult Factory for Requirements Above 250°C

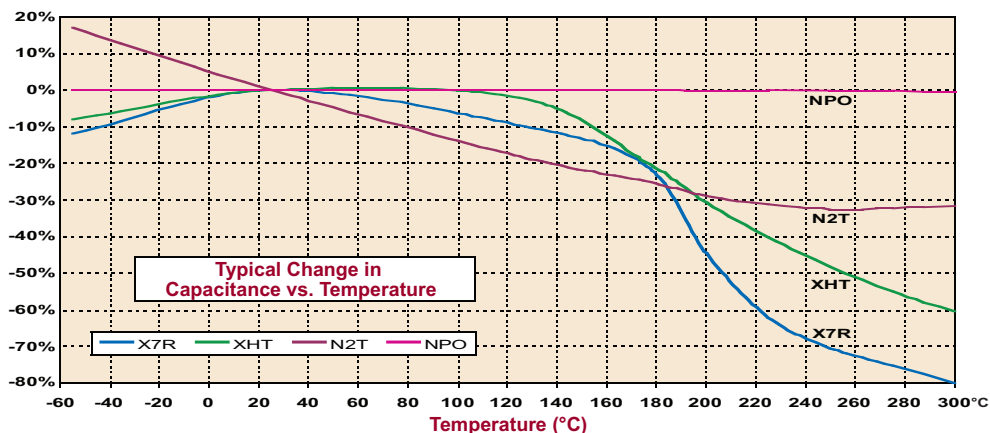
## DIELECTRIC CHARACTERISTICS

\* Contact factory regarding NPQ & N2T dielectric

CHARACTERISTICS	NPO/NPQ/N2T* DIELECTRIC	XHT DIELECTRIC	X7R DIELECTRIC
<b>OPERATING TEMPERATURE RANGE</b>	-55°C to 250°C+ N2T (125°C Max)	-55°C to 250°C+	-55°C to 250°C+
<b>TEMPERATURE COEFFICIENT UP TO 200°C</b>	0 ± 30 ppm/°C	+15 - 32% Δ °C Typical	+15 - 45% Δ °C Typical
<b>INSULATION RESISTANCE</b> @ 25°C @ 200°C	>100 GΩ or >1000 ΩF >1 GΩ or >10 ΩF	>100 GΩ or >1000 ΩF >1 GΩ or >10 ΩF	>100 GΩ or >1000 ΩF >1 GΩ or >10 ΩF
<b>DIELECTRIC WITHSTANDING VOLTAGE</b>	DWV tested at 250% rated voltage except 500V rated parts are tested at 150% rated voltage.	DWV tested at 250% rated voltage except 500V rated parts are tested at 150% rated voltage.	DWV tested at 250% rated voltage except 500V rated parts are tested at 150% rated voltage.
<b>DISSIPATION FACTOR @ 25°C VOLTAGE RATING:</b>	<b>NPO/NPQ/N2T* DIELECTRIC</b>	<b>XHT DIELECTRIC</b>	<b>X7R DIELECTRIC</b>
10 VDC	.15%	5.0%	7.5%
16/25 VDC	.15%	3.5%	5.0%
50 VDC	.15%	2.5%	3.5%
>50 VDC	.15%	2.5%	2.5%

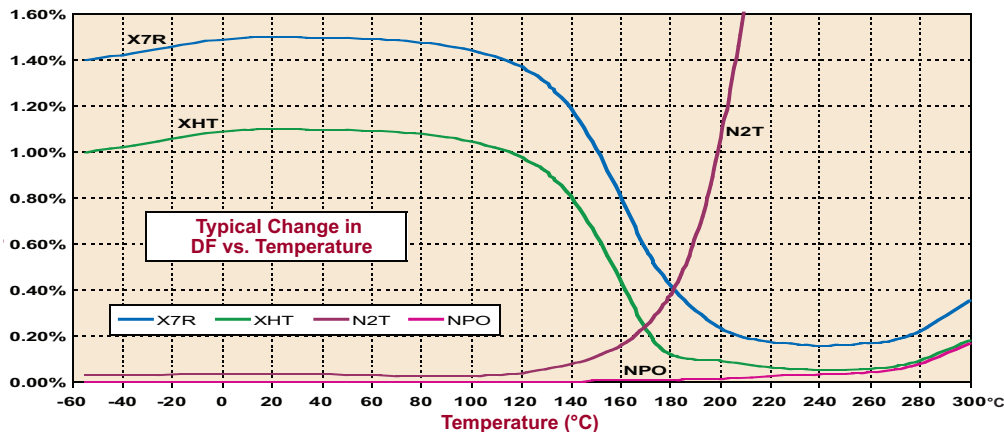
### TEMPERATURE COEFFICIENT

Tested at 1VACRMS 1KHz  
Capacitance Change



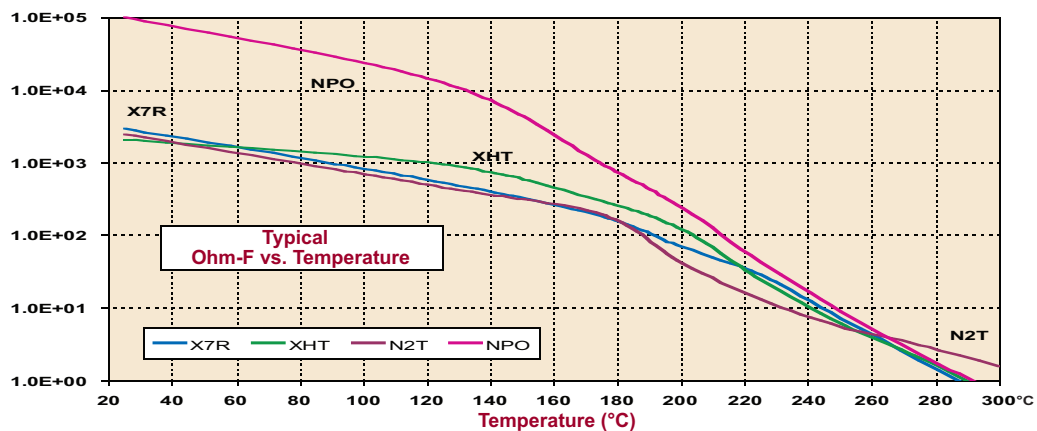
### DISSIPATION FACTOR

Percentage Change



### INSULATION RESISTANCE

Ohm-F

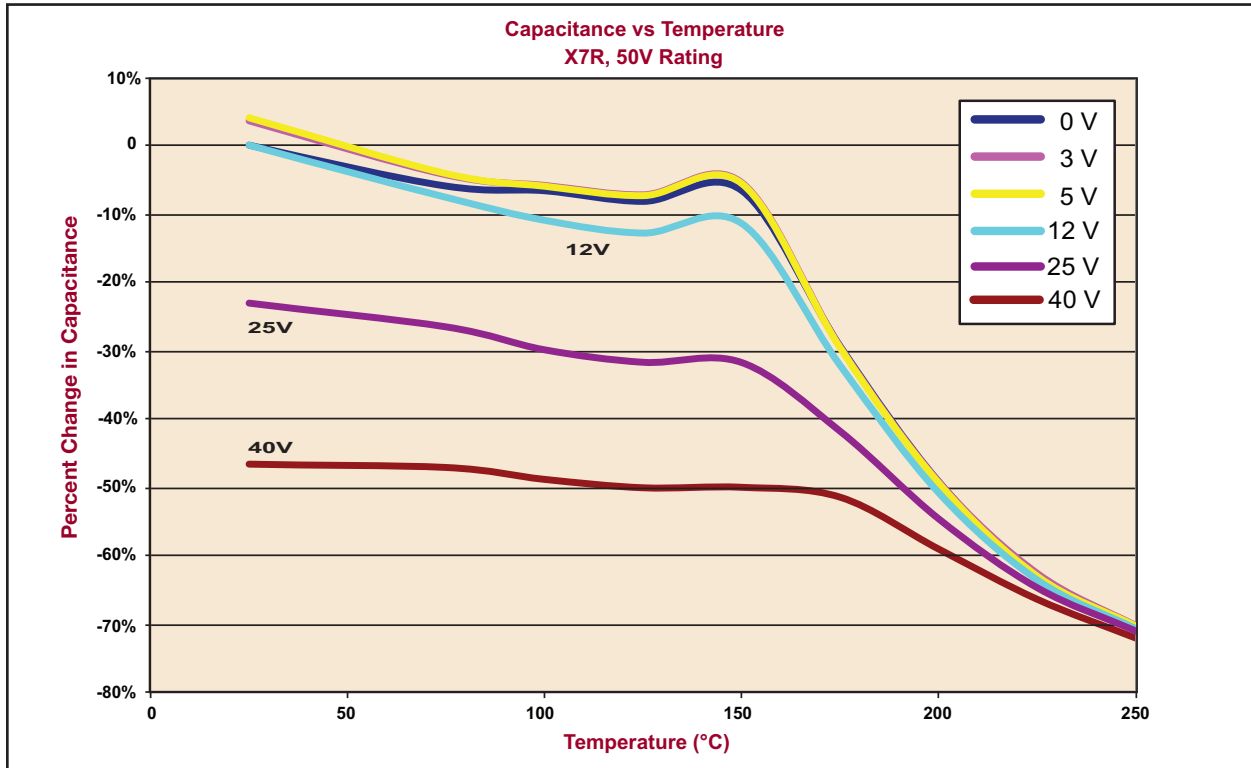


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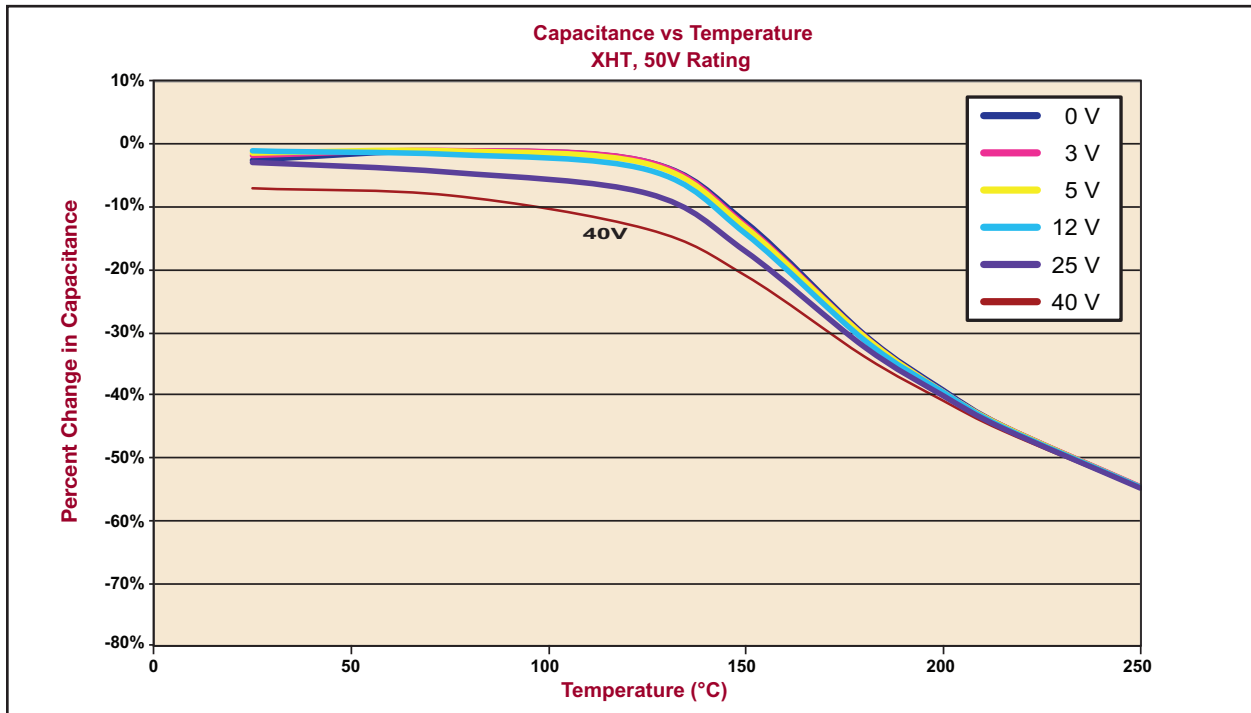
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## DIELECTRIC CHARACTERISTICS

### TYPICAL VOLTAGE TEMPERATURE COEFFICIENT (X7R)



### TYPICAL VOLTAGE TEMPERATURE COEFFICIENT (XHT)



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