

# ELECTRICAL CHARACTERISTICS

PARAMETER	NPO		X7R	
TEMPERATURE COEFFICIENT:	0± 30 ppm/°C	-55 to +125°C	± 15%	-55 to +125°C
DISSIPATION FACTOR:	.001 (0.1%) max		For Vrated = 50 VDC, DF = 2.5% max For Vrated = 125 VDC, DF = 3.0% max For Vrated = 116 VDC, DF = 3.5% max	
AGING:	None		2.5% / decade hour	
INSULATION RESISTANCE:	IR @ 25°C, WVDC = 1000 F or 100G whichever is less <sup>1</sup> IR @ 125°C, WVDC = 10% of 25°C rating			
DIELECTRIC STRENGTH:	For Vrated = 6 - 200 VDC, DWV = 2.5 X WVDC, 25°C, 50mA max. For Vrated = 201 - 499 VDC, DWV = 2.0 X WVDC, 25°C, 50mA max. For Vrated = 500 - 999 VDC, DWV = 1.5 X WVDC, 25°C, 50mA max. For Vrated = 1000+ VDC, DWV = 1.2 X WVDC, 25°C, 50mA max.			
TEST PARAMETERS:	C > 100 pF; 1kHz ±50Hz; 1.0±0.2 VRMS C < 100 pF 1Mhz ±50kHz; 1.0±0.2 VRMS		1kHz ±50Hz; 1.0±0.2 VRMS	
NOTES:	1) Tanceram X7R IR = 500 F or 10 G ,			