

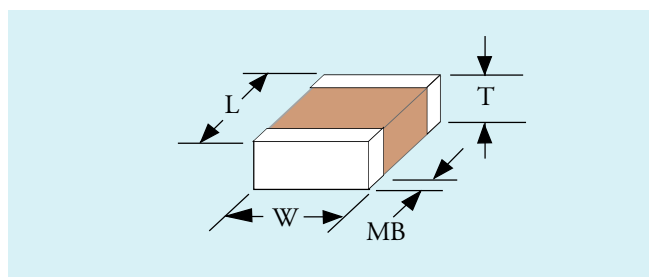
1. SCOPE

This specification covers the characteristics of size 0504, X7R dielectric, 10 nF capacitance, +/- 10% tolerance, 250 VDC rated ceramic chip capacitors with nickel barrier (100% tin) termination.

2. DIELECTRIC CHARACTERISTICS - X7R

Operating Temperature Range:	-55°C to +125°C
Temperature Coefficient:	+/- 15% Change in capacitance @ 1 Vrms
Dissipation Factor:	2.5% Max. @ 25°C
Insulation Resistance, 25°C:	100 Giga-Ohms or 1000 Ohm-Farads, whichever is less
Insulation Resistance, 125°C:	10 Giga-Ohms or 100 Ohm-Farads, whichever is less
Dielectric Withstanding Voltage:	500 VDC
Aging Rate:	< 2.0% per decade
Test Parameters:	1KHz, 1.0 Volts +/- 0.2 Vrms, 25°C

3. PHYSICAL DIMENSIONS (NOT TO SCALE)



dimensions	L	W	T	MB
inches (mm)	.050 (1.27)	.040 (1.02)	.040 (1.00)	.014 (.356)
+/- in (mm)	.006 (.152)	.006 (.152)	Max	.006 (.152)

4. PART NUMBER DESCRIPTION

0504 B 103 K 251 N X040 T

0504	= Size
B	= X7R Dielectric
103	= Capacitance Code (pF): First two digits are significant, third digit denotes number of zeros
K	= Capacitance tolerance: K = +/- 10%
251	= DC Voltage Rating: First two digits are significant, third digit denotes number of zeros
N	= Termination: Nickel Barrier (100% Tin) / (RoHS Compliant)
X040	= Special Thickness: .040" Max. (1.00mm Max.)
T	= Packaging: Tape and Reel

REVISION: A

NOVACAP P/N: 0504B103K251NX040T
CUSTOMER:
CUST. P/N:

SPEC DESIGNER MK 7/29/10
SPEC MANAGER BN 7/29/10
ENGINEERING BN 7/29/10

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