

Surface Mount Ceramic Capacitors Specifications



Part Number Determination

NPO0805HTTD101K						
NPO	0805	H	T	TD	101	K
DIELECTRIC	SIZE	VOLTAGE	TERMINATION	PACKAGING	CAPACITANCE	TOLERANCE
NPO X5R X7R Y5V Z5U	0402 0603 0805 1206 1210 1812 1825 2220	K=6.3V A=10V C=16V E=25V H=50V I=100V J=200V	T=Sn (100% Tin)	TD=7" Paper Tape TE=7" Embossed Plastic Tape TDB=13" Paper Tape TED=13" Embossed Plastic Tape	In pF 2 Significant digits + number of zeros	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% K=±10% M=±20% Z=+80-20%

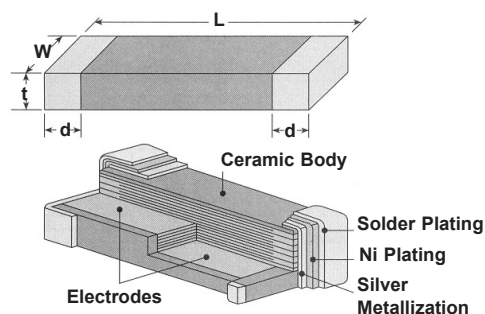
Electrical Characteristics

Dielectric	Dissipation Factor	Temperature Characteristic	Operating Temperature Range	Insulation Resistance
NPO	Values > 30pF: 0.1% Values <30pF: =400+20XC DF=1/Q C is in pF	0±30ppm/°C	-55°C to +125°C	+25°C 100,000M min. or 1000M - uF min. whichever is less
X5R	6.3V=? 10V=5% 16V=3.5% 25V=3%	±15% (0 VDC)	-55°C to +85°C	+25°C 100,000M min. or 500M - uF min. whichever is less
X7R	50V & 100V: 2.5% max 25V: 3.0% 16V: 3.5%		-55°C to +125°C	+25°C 10,000M min. or 1000M - uF min. whichever is less
Y5V	16V & 25V: 7.0% 50V: 5.0%	+22% to -82% max		

Package Dimensions (in/mm)

Case Size	L	W	t	d
0402	.039±.004 1.0±0.1	0.2±.004 0.5±0.1	.024 0.6	0.1±.006 0.25±0.15
0603	.063±.006 1.6±0.15	.032±.006 0.81±0.15	.035 0.9	.014±.006 0.35±0.15
0805	.079±.008 2.01±0.2	.049±.008 1.25±0.2	.051 1.3	.02±.01 0.50±0.25
1206	.126±.008 3.2±0.2	.063±.008 1.6±0.2	.059 1.5	.02±.01 0.5±0.25

Construction



Land Pattern (mm)

Case Size	A	B	C	D
0402	0.50	1.70	0.60	0.50
0603	0.75	2.30	0.80	0.70
0805	1.25	3.00	1.00	1.00
1206	1.6	4.0	1.0	2.0

