

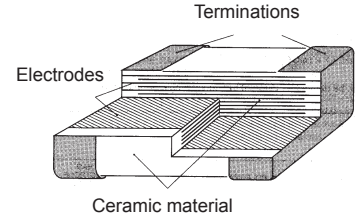
**Surface Mount Ceramic Capacitors  
Specifications**



**Part Number Determination**

0805B102K101NT						
0805	B	102	K	101	N	T
SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	VOLTAGE	TERMINATION	PACKAGING
0402 0603 0805 1206 1210 1808 1812	N=NP0 B=X7R F=Y5V	2 significant digits + # of zeros 100=10pF 102=1000pF	C=±0.25pF D=±0.5pF J=±5% K=±10% M=±20% Z=+80-20%	100=10V 160=16V 250=25V 500=50V 101=100V 201=200V 501=500V 102=1KV 202=2KV 302=3KV 402=4KV	N=Non BME B=BME	T=7" Reel / Paper P=7" Reel / Plastic G=13" Reel / Paper L=13" Reel / Plastic B=Bulk / Polythene Bag

**Construction**

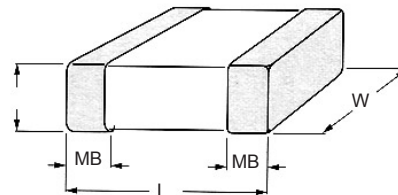


**Part Number Determination**

VJ0402A101JXQCW1BC							
VJ0402	A	101	J	X	Q	C	W1BC
SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION	VOLTAGE	PACKAGING	TECHNOLOGY
VJ0402 VJ0603 VJ0805 VJ1206 VJ1210 VJ1808 VJ1812	A=COG (NPO) G=X5R Y=X7R V=Y5V	2 significant digits + # of zeros 101=100pF 102=1000pF 1R0=1.0pF	B=±0.1pF C=±0.25pF D=±0.5pF J=±5% K=±10% M=±20% Z=-20/+80%	X=Ni Barrier	Y=6.3V Q=10V J=16V K,X=25V A=50V B=100V C=200V P=250V E=500V G=1000V F=2000V H=3000V	C=7" Reel/Paper P=13" Reel/Paper T=7" Reel/Plastic R=13" Reel/Plastic	

**Package Dimensions in(mm)**

Size Code	L	W	T Max.	MB
0402	0.040±0.002 (1.0±0.05)	0.020±0.002 (0.5±0.05)	0.022 (0.55)	0.010+0.002/-0.004 (0.25+0.05/-0.1)
0603	0.063±0.004 (1.6±0.10)	0.030±0.003 (0.8±0.07)	0.035 (0.87)	0.015±0.006 (0.40±0.15)
0805	0.080±0.006 (2.0±0.15)	0.050±0.004 (1.25±0.10)	0.053 (1.35)	0.020±0.008 (0.50±0.20)
1206	0.125±0.006 (3.2±0.15)	0.063±0.006 (1.6±0.15) 0.063±0.008 (1.6±0.20)	0.069 (1.8)	0.025±0.008 (0.60±0.20)



**Land Pattern**

Size Code	A	B	C	D	E	F	G
0402 reflow	1.50	0.50	0.50	0.50	0.10	1.75	0.95
0603 reflow	2.30	0.70	0.80	0.80	0.20	2.55	1.40
0603 wave	2.40	1.00	0.70	0.80	0.20	3.10	1.90
0805 reflow	2.80	1.00	0.90	1.30	0.40	3.08	1.85
0805 wave	3.20	1.40	0.90	1.30	0.36	4.10	2.50
1206 reflow	4.00	2.20	0.90	1.60	1.60	4.25	2.25
1206 wave	4.80	2.30	1.25	1.70	1.25	5.90	3.20

