

**Surface Mount Ceramic Capacitors
Specifications & 0201 Pricing**

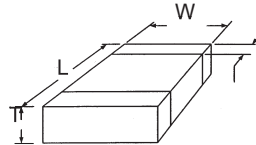


Part Number Determination

08055A101JAT2A								
0805	5	A	101	J	A	T	2	A
SIZE	VOLTAGE	DIELECTRIC	CAPACITANCE	TOLERANCE	FAILURE RATE	TERMINATIONS	PACKAGING	SPECIAL CODE
0201 0402 0603 0805 1206 1210 1812 1825 2220 2225	4=4V 6=6.3V Z=10V Y=16V 3=25V D=35V 5=50V 1=100V 2=200V V=250V 7=500V C=600V A=1K0V S=1500V G=2000V W=2500V H=3000V J=4000V K=5000V	A=NPO (COG) C=X7R D=X5R G=Y5V U=Ultra Low ESR NPO	2 significant digits + # of zeros 100=10pF 102=1000pF 105=1uF	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% K=±10% M=±20% Z=+80-20% P=+100%-0%	A=N/A 4=Automotive	T=100% Tin 7=Gold Plated 1=Pd/Ag J=SnPb	1=7" Reel- plastic 2=7" Reel- paper 4=13" Reel 7=Bulk Cassette 9=Bulk	A=Std T=.66mm S=.56mm R=.46mm

Package Dimensions (mm/in)

Size	L	W	T	t
0201	0.60±0.03 .24±.001	0.30±0.03 .11±.001	0.33 0.013	0.15±0.05 .006±.002
0402	1.00±0.10 .40±.004	.50±0.10 .20±.004	0.56 0.022	0.25±0.15 0.010±0.006
0603	1.6±.15 .63±.006	.81±.15 .32±.006	0.86 0.034	0.35±0.15 0.014±0.006
0805	2.01±.20 .79±.008	1.25±.20 .49±.008	0.71 to 1.40 0.028 to 0.055	0.50±0.25 0.020±0.010
1206	3.2±0.20 .126±.008	1.60±.20 .063±.008	0.94 to 1.780 0.037 to 0.060	0.50±0.25 0.020±0.010



Electrical Characteristics

TCC: NPO:±30ppm/°C, X7R:±15%
X5R: ±15%, Y5V:±22% to -82%

Dissipation and Q Factor: NPO:>30pF:
0.1% max ≤30pF:Q=400+20xC,
DF=1/Q C is in pF
X7R: 50&100V=2.5%, 25V=3%,
16V=3.5%, 10V=5%
X5R: ≥50V=2.5%, 25V=3%,
16V=3.5%, 10V=5%
Y5V: 25& 50V=5%, 16V=7%, 10V=10%

Operating Temperature:
NPO & X7R:-55 to +125°C
X5R: -55 to +85°C, Y5V: -30 to +85°C

Terminations: Nickel Barrier

Land Pattern (mm/in)

Case Size	D1	D2	D3	D4	D5
0402 Reflow	1.70 (0.07)	0.60 (0.02)	0.50 (0.02)	0.60 (0.02)	0.50 (0.02)
0603 Reflow	2.30 (0.09)	0.80 (0.03)	0.70 (0.03)	0.80 (0.03)	0.75 (0.03)
0603 Wave	3.10 (0.12)	1.50 (0.06)	0.70 (0.03)	1.20 (0.05)	0.75 (0.03)
0805 Reflow	3.00 (0.12)	1.00 (0.04)	1.00 (0.04)	1.00 (0.04)	1.25 (0.05)
0805 Wave	4.00 (0.15)	1.50 (0.06)	1.00 (0.04)	1.50 (0.06)	1.25 (0.05)
1206 Reflow	4.00 (0.16)	1.00 (0.04)	2.00 (0.09)	1.00 (0.04)	1.60 (0.06)
1206 Wave	5.00 (0.19)	1.50 (0.06)	2.00 (0.09)	1.50 (0.06)	1.60 (0.06)

