

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



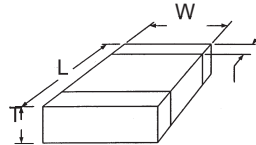
Part Number Determination

| 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 .63±.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) |

