



# Surface Mount RF/Microwave Capacitors

## U Series Specifications

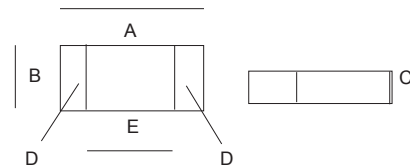


### Part Number Determination

| 08051U100JAT2A               |                                    |                     |                                                                            |                                                                                  |              |                        |                                   |              |
|------------------------------|------------------------------------|---------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|------------------------|-----------------------------------|--------------|
| 0805                         | 1                                  | U                   | 100                                                                        | J                                                                                | A            | T                      | 2                                 | A            |
| SIZE                         | VOLT                               | DIELECTRIC          | CAPACITANCE                                                                | TOLERANCE                                                                        | FAILURE RATE | TERMINATION            | PKGING                            | SPECIAL CODE |
| 0402<br>0603<br>0805<br>1210 | 3=25V<br>5=50V<br>1=100V<br>2=200V | U=Ultra Low ESR NPO | 2 significant digits + # of zeros<br><br>100=10pF<br>102=1000pF<br>105=1uF | B=±0.1pF<br>C=±0.25pF<br>D=±0.5pF<br>F=±1%<br>G=±2%<br>J=±5%<br>K=±10%<br>M=±20% | A=N/A        | T=Plated Ni and Solder | 2=7" Reel<br>4=13" Reel<br>9=Bulk | A=Std        |

### Package Dimensions (in/mm)

| Size | A                          | B                          | C                           | D                            | E                       |
|------|----------------------------|----------------------------|-----------------------------|------------------------------|-------------------------|
| 0402 | 0.039±0.004<br>(1.00±0.1)  | 0.020±0.004<br>(0.50±0.1)  | 0.024 max<br>(0.6) max      | N/A                          | N/A                     |
| 0603 | 0.060±0.010<br>(1.52±0.25) | 0.030±0.010<br>(0.76±0.25) | 0.036 max<br>(0.91) max     | 0.010±0.005<br>(0.25±0.13)   | 0.030 min<br>(0.76) min |
| 0805 | 0.079±0.008<br>(2.01±0.20) | 0.049±0.008<br>(1.25±0.20) | 0.040±0.005<br>(1.02±0.127) | 0.020±0.010<br>(0.51±0.255)  | 0.020 min<br>(0.51) min |
| 1210 | 0.126±0.008<br>(3.2±0.20)  | 0.098±0.008<br>(2.49±0.20) | 0.050±0.005<br>(1.27±0.127) | 0.025±0.015<br>(0.635±0.381) | 0.040 min<br>(1.02) min |



### 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) |

