

# Microwave MLC's



## SQ A Case & B Case Ultra Low ESR MLC



### FEATURES:

- Low ESR
- High Q
- High Self Resonance
- Capacitance Range 0.1 pF to 5100 pF
- 175°C Capability SQCB

### APPLICATIONS:

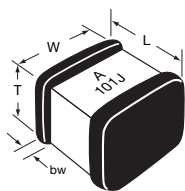
- RF Power Amplifiers
- Low Noise Amplifiers
- Filter Networks
- MRI Systems

### HOW TO ORDER

|                                   |   |  |   |  |   |  |  |   |
|-----------------------------------|---|--|---|--|---|--|--|---|
| <p><b>SQ</b></p> <p>AVX Style</p> | <p><b>CB</b></p> <p><b>Case Size</b><br/>CA = *<br/>CB = *</p> <p>* See mechanical dimensions below</p> | <p><b>7</b></p> <p><b>Voltage Code</b><br/>5 = 50V<br/>1 = 100V<br/>E = 150V<br/>2 = 200V<br/>V = 250V<br/>9 = 300V<br/>7 = 500V</p> | <p><b>M</b></p> <p><b>Temperature Coefficient Code</b><br/>M = +90±20ppm/°C<br/>A = 0±30ppm/°C<br/>C = 15% ("J" Termination only)</p> | <p><b>100</b></p> <p><b>Capacitance</b><br/>EIA Capacitance Code in pF.<br/>First two digits = significant figures or "R" for decimal place.<br/>Third digit = number of zeros or after "R" significant figures.</p> | <p><b>J</b></p> <p><b>Capacitance Tolerance Code</b><br/>B = ±.1 pF<br/>C = ±.25 pF<br/>D = ±.5 pF<br/>F = ±1%<br/>G = ±2%<br/>J = ±5%<br/>K = ±10%<br/>M = ±20%<br/>N = ±30%</p> | <p><b>A</b></p> <p><b>Failure Rate Code</b><br/>A = Not Applicable</p> | <p><b>T</b></p> <p><b>Termination Style Code</b><br/>**1 = Pd/Ag<br/>**7 = Ag/Ni/Au<br/>J = Nickel Barrier Sn/Pb (60/40)<br/>**T = 100% Tin<br/>H = Cu/Sn (Non-Magnetic)</p> <p>**RoHS Compliant</p> | <p><b>1A</b></p> <p><b>Packaging Code</b><br/>1A = 7" Reel Unmarked<br/>6A = Waffle Pack Unmarked<br/>ME = 7" Reel Marked<br/>WE = Waffle Pack Unmarked</p> <p>* Vertical T&amp;R available<br/>* 500 piece reels available</p> |
|-----------------------------------|---|--|---|--|---|--|--|---|

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### MECHANICAL DIMENSIONS: inches (millimeters)



| Case  | Length (L)                               | Width (W)                | Thickness (T)            | Band Width (bw)                          |
|-------|--|--------------------------|--------------------------|--|
| SQCA* | .055 + .015 - .010<br>(1.40+ .381 -.254) | .055±.015<br>(1.40±.381) | .020/.057<br>(.508/1.45) | .010 + .010 - .005<br>(.254 +.254 -.127) |
| SQCB* | .110 + .020 - .010<br>(2.79 +.508 -.254) | .110±.010<br>(2.79±.254) | .030/.102<br>(.762/2.59) | .015±.010<br>(.381±.254)                 |

**TAPE & REEL:** All tape and reel specifications are in compliance with EIA RS481 (equivalent to IEC 286 part 3).

- 8mm carrier
- 7" reel: SQCA/SQCB = 2000 pcs (500 piece reels SQCA SQCB)

### WAFFLE PACK

- SQCA 100 pcs
- SQCB 80 pcs

