

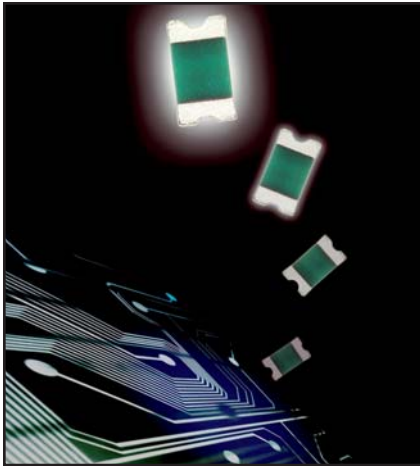
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## Low ESR Microwave Capacitors



Based on its patented multilayer low loss organic (MLO) technology. These new capacitors represent a paradigm shift from traditional ceramic and thin film passive SMD components. Multilayer Organic Capacitors (MLOC) are polymer based capacitors that use high conductivity copper interconnects in a multilayer fashion. The ability to fabricate these components on large area substrates and state of the art laser direct imaging allow for improved cost benefits and tolerance control. The end result is a state of the art low ESR and high SRF low profile RF capacitor that can support frequencies well above one GHz. Additionally MLOCs are expansion matched to printed circuit boards to allow for improved reliability.

### FEATURES

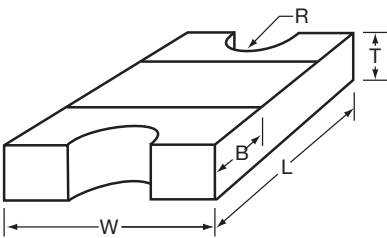
- Low ESR
- Hi-Q<sup>®</sup>
- High Self Resonance
- Tight Tolerance

### APPLICATIONS

- RF Power Amplifiers
- Low Noise Amplifiers
- Filter Networks

### HOW TO ORDER

<p><b>ML</b></p> <p>↓</p> <p><b>AVX Style</b></p>	<p><b>03</b></p> <p>↓</p> <p><b>Case Size</b> 03 = 0603</p>	<p><b>5</b></p> <p>↓</p> <p><b>Voltage Code</b> 5 = 50V V = 250V</p>	<p><b>1</b></p> <p>↓</p> <p><b>Temperature Coefficient Code</b> 1 = 0±30ppm</p>	<p><b>1R8</b></p> <p>↓</p> <p><b>Capacitance</b> EIA Capacitance Code in pF. First two digits = significant figures or "R" for decimal place. Third digit = number of zeros or after "R" significant figures.</p>	<p><b>P</b></p> <p>↓</p> <p><b>Capacitance Tolerance Code</b> P = ± .02 pF A = ± .05 pF B = ± .10 pF C = ± .25 pF D = ± .5 pF F = ± 1% G = ± 2% J = ± 5%</p>	<p><b>A</b></p> <p>↓</p> <p><b>Failure Rate Code</b> A = Not Applicable</p>	<p><b>T</b></p> <p>↓</p> <p><b>Termination Style Code</b> T = Ni, Tin</p>	<p><b>2A</b></p> <p>↓</p> <p><b>Packaging Code</b> 2A = 7" Reel Unmarked</p>
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### MECHANICAL DIMENSIONS: inches (millimeters)

Case	Length (L)	Width (W)	Thickness (T)	Band Width (B)	Castellation Radius (R)
0603	0.063 ± 0.004 (1.600 ± 0.102)	0.033 ± 0.004 (0.838 ± 0.102)	0.025 ± 0.004 (0.635 ± 0.102)	0.015 ± 0.005 (0.381 ± 0.127)	0.008 ± 0.002 (0.203 ± 0.051)

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

- 8mm carrier
- 7" reel, 3,000 pcs per reel