SM Wideband RF Transformers

- Applications: impedance matching, balanced/unbalanced mixing, power splitting, coupling and signal inversion, etc.
- 250 mA max current rating.

Core material: Ferrite
Terminations: Tin-silver-copper over silver-platinum-glass frit
Weight: 168 mg
Ambient temperature: –40°C to +85°C
Storage temperature: Component: –40°C to +85°C. Tape and reel packaging: –40°C to +80°C
Resistance to soldering heat: Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL): 1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF): 60 per billion hours / 16,666,667 hours, calculated per Telcordia SR-332
Packaging: 1000/13″ reel; Plastic tape: 16 mm wide, 0.34 mm thick, 12 mm pocket spacing, 4.83 mm pocket depth
PCB washing: Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCBt_Washing.pdf.

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<table>
<thead>
<tr>
<th>Part number</th>
<th>Impedance ratio pri:sec</th>
<th>Frequency range (MHz)</th>
<th>Insertion loss max (dB)</th>
<th>Pins 1-3 L min (μH)</th>
<th>DCR max (mOhms)</th>
<th>Pins 6-4 L min (μH)</th>
<th>DCR max (mOhms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z9169-A</td>
<td>1 : 1 CT</td>
<td>3 – 1000</td>
<td>1.20</td>
<td>1.8</td>
<td>35.0</td>
<td>1.8</td>
<td>40.0</td>
</tr>
<tr>
<td>A9899-A</td>
<td>1 : 1 CT</td>
<td>0.26 – 930</td>
<td>0.60</td>
<td>18.0</td>
<td>230.0</td>
<td>18.0</td>
<td>310.0</td>
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<tr>
<td>A9900-A</td>
<td>1 : 1 CT</td>
<td>0.525 – 1000</td>
<td>1.20</td>
<td>7.0</td>
<td>200.0</td>
<td>7.0</td>
<td>200.0</td>
</tr>
</tbody>
</table>

1. Electrical specifications at 25°C. Measurements are referenced to 50 Ohms.

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Dimensions are in inches/mm.
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Response Curves

Measured on a network analyzer (re: 50 Ohms)