# 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)

## 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.

## Impedance Frequency Insertion

<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</th>
<th>Pins 6-4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>L min (μH)</td>
<td>DCR max (mOhms)</td>
</tr>
<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>
</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>
</tr>
<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>
</tr>
</tbody>
</table>

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

## Dimensions

- Unless otherwise noted, tolerance for all dimensions ±0.005/0.127.
- Dimensions are in inches/mm.

- Color dot over pin 1

- Recommended Land Pattern

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Response Curves

Measured on a network analyzer (re: 50 Ohms)