## Surface Mount Wideband RF Transformers

- Developed for use with Analog Devices digital to analog high-speed converters
- 400 V interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating.

### Core material
- Ferrite

### Terminations
- RoHS compliant tin-silver-copper over silver-platinum-glass frit. Other terminations available at additional cost.

### Weight
- 0.4 g

### Ambient temperature
- –40°C to +85°C

### Storage temperature
- Component: –40°C to +85°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)

### Packing
- 250/7” reel; 1000/13” reel; Plastic tape: 16 mm wide, 0.343 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.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Impedance ratio</th>
<th>3 dB frequency response (MHz)</th>
<th>Irms (mA)</th>
<th>Insertion loss typ (dB)</th>
<th>Pins 1-3 L min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Pins 6-4 L min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Color dot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z9280-AL</td>
<td>1:1</td>
<td>0.250 – 450</td>
<td>250</td>
<td>0.58</td>
<td>9.5</td>
<td>0.075</td>
<td>9.5</td>
<td>0.075</td>
<td>Orange</td>
</tr>
<tr>
<td>Z9314-AL</td>
<td>1:6.25</td>
<td>0.350 – 1700</td>
<td>250</td>
<td>1.10</td>
<td>30</td>
<td>0.080</td>
<td>4.5</td>
<td>0.038</td>
<td>Black</td>
</tr>
</tbody>
</table>

1. When ordering, please specify termination and packaging codes:
   - Termination: L = RoHS compliant tin-silver-copper over silver-platinum-glass frit. Special order: S = non-RoHS tin-lead (63/37).
   - Packaging: C = 7” machine ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   - D = 13” machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).
   - B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

2. Impedance ratio is for the full primary winding to the full secondary winding.

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

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

### Dimensions

- Dimensions are in inches
- All dimensions ±0.005” ±0.127 mm

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<References and documentation details available in the image.>
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Frequency Response Curves

Z9280-AL

Attenuation measured on a network analyzer (re: 50 Ohms)

Z9314-AL

Attenuation measured on a network analyzer (re: 50 Ohms)