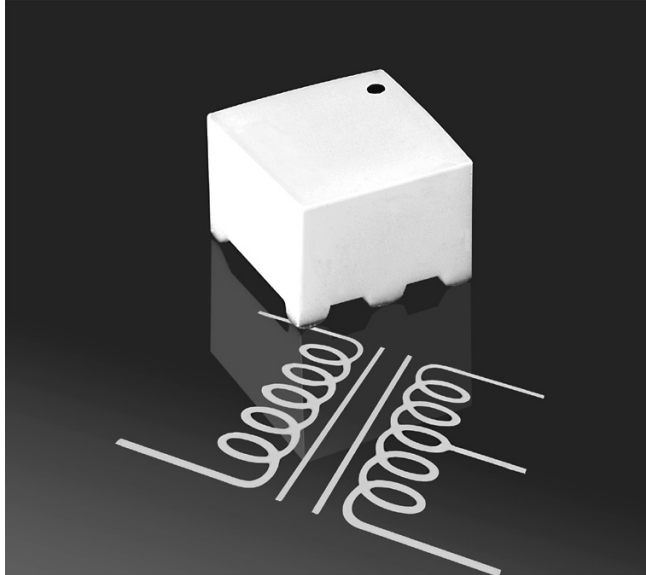


# SM Wideband RF Transformers



- 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**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

**Storage temperature** Component:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

Tape and reel packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

**Resistance to soldering heat** Max three 40 second reflows at  $+260^{\circ}\text{C}$ , parts cooled to room temperature between cycles

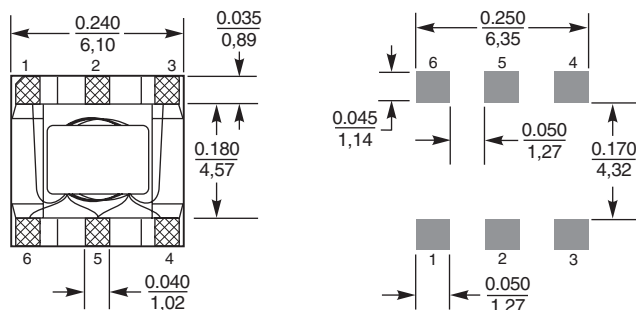
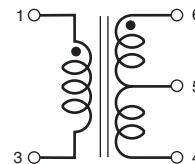
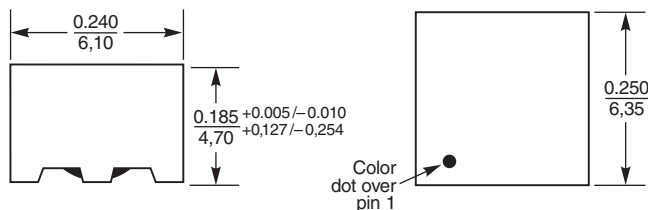
**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at  $<30^{\circ}\text{C}$  / 85% relative humidity)

**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](#).

Part number	Impedance ratio pri:sec	Frequency range (MHz)	Insertion loss max (dB)	Pins 1-3		Pins 6-4	
				L min ( $\mu\text{H}$ )	DCR max (mOhms)	L min ( $\mu\text{H}$ )	DCR max (mOhms)
Z9169-A	1 : 1 CT	3 – 1000	1.20	1.8	35.0	1.8	40.0
A9899-A	1 : 1 CT	0.26 – 930	0.60	18.0	230.0	18.0	310.0
A9900-A	1 : 1 CT	0.525 – 1000	1.20	7.0	200.0	7.0	200.0

1. Electrical specifications at  $25^{\circ}\text{C}$ . Measurements are referenced to 50 Ohms.



**Recommended Land Pattern**

Unless otherwise noted, tolerance for all dimensions  $\pm 0.005/0.127$ .

Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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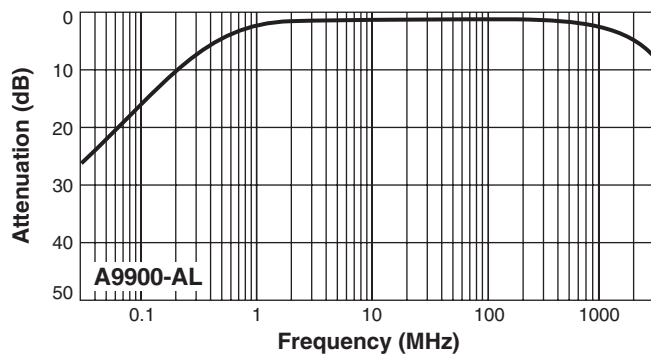
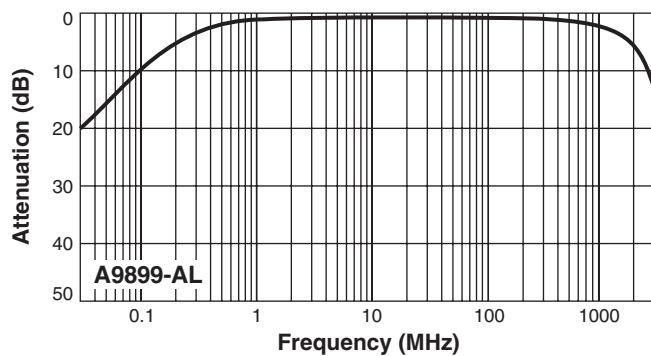
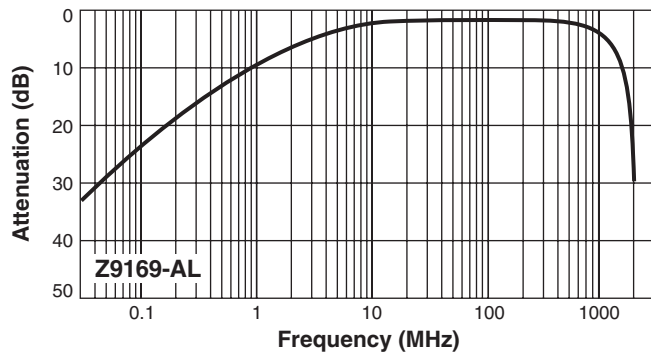
Document 308-1 Revised 07/05/23

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# SM Wideband RF Transformers

## Response Curves



Measured on a network analyzer (re: 50 Ohms)