

Mini Wideband Transformer – YA9308



- 300 Vrms interwinding isolation, 1/4 Watt RF input power
- 250 mA max current rating
- AEC-Q200 Grade 1 (–40°C to +125°C)

Core material Ferrite

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

Weight 87 mg

Ambient temperature –40°C to +125°C

Storage temperature Component: –40°C to +140°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 750/7" reel; 2500/13" reel Plastic tape: 12 mm wide, 0.34 mm thick, 8 mm pocket spacing, 3.18 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCBt_Washing.pdf](#).

| Part number ¹ | Impedance ratio ² pri:sec | Bandwidth (MHz) | Insertion loss max (dB) | Pins 4–6 (primary) | | Pins 1–3 (secondary) | | Color dot |
|--------------------------|---|-----------------|-------------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-----------|
| | | | | L min ³ (µH) | DCR max ⁴ (mOhm) | L min ³ (µH) | DCR max ⁴ (mOhm) | |
| YA9308-AE_ | 1:2 | 0.1–950 | 0.5 | 54 | 90 | 110 | 156 | White |

1. When ordering, please specify **packaging** code:

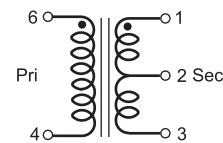
YA9308-AEC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (750 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 (2500 parts per full reel).

- Impedance ratio is for the full primary winding to the full secondary winding.
- Inductance measured at 100 kHz, 0.1 V, 0 Adc on an Agilent/HP 4192 or equivalent.
- DCR measured on a micro-ohmmeter.
- Electrical specifications at 25°C. Measurements are referenced to 50 Ohms. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

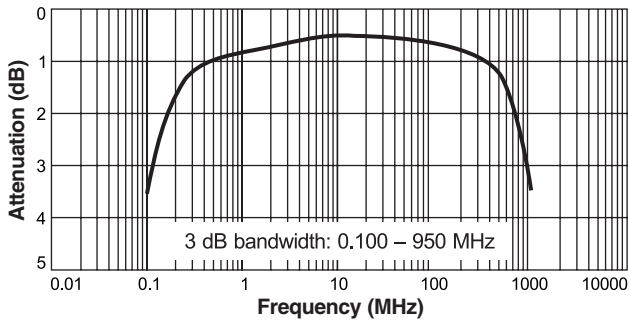
Schematic



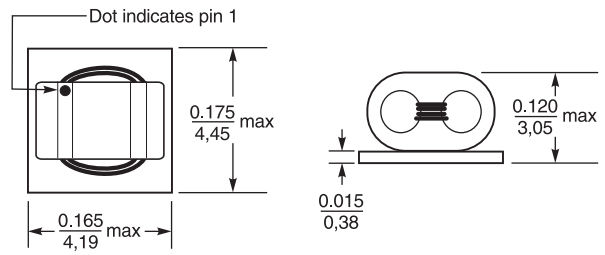


YA9308 SMT Mini Wideband Transformer

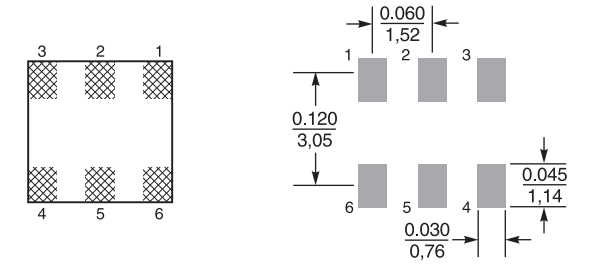
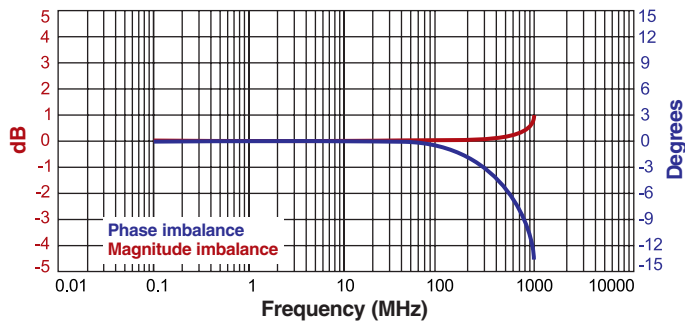
Insertion Loss



Dimensions



Imbalance



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

Recommended Land Pattern



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