

SMT Mini Wideband Transformer



- 3 dB bandwidth: 0.1 MHz to 3.5 GHz
- 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 90 mg max

Interwinding isolation 300 V

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 750/7" reel; 3000/13" reel; Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

| Part number ¹ | Impedance ratio pri:sec | Bandwidth (MHz) | Insertion loss max (dB) | Pins 1-4 | | Pins 2-3 | |
|--------------------------|----------------------------|--------------------|----------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|
| | | | | L min ³ (µH) | DCR max ⁴ (mOhm) | L min ³ (µH) | DCR max ⁴ (mOhm) |
| JA4220-AL_ | 1:1 | 0.1 – 3500 | 0.2 | 15 | 120 | 15 | 120 |

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

JA4220-ALC

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 (750 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (3000 parts per full reel).

2. Inductance measured at 1 MHz, 0.1 V, 0 Adc on an Agilent/HP 4192 or equivalent.

3. DCR measured on a micro-ohmmeter.

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

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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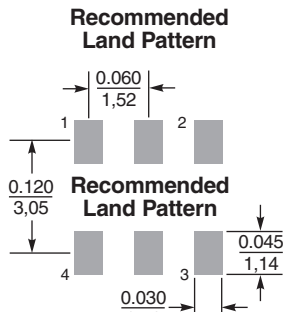
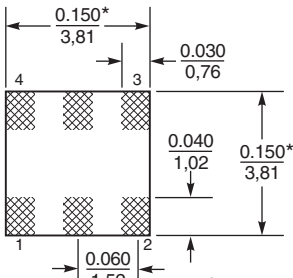
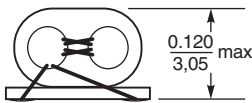
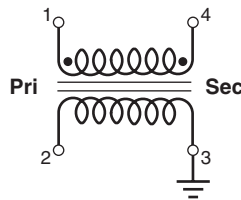
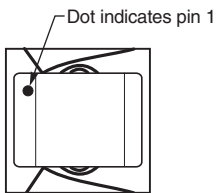
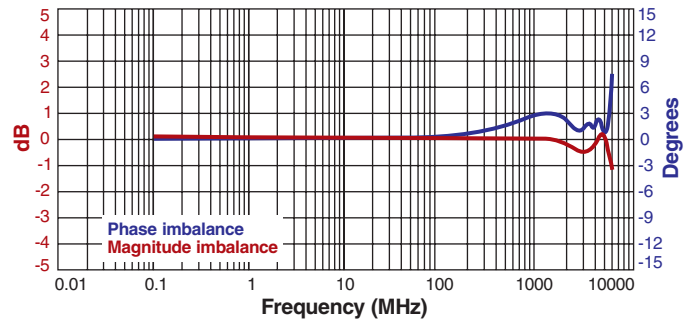
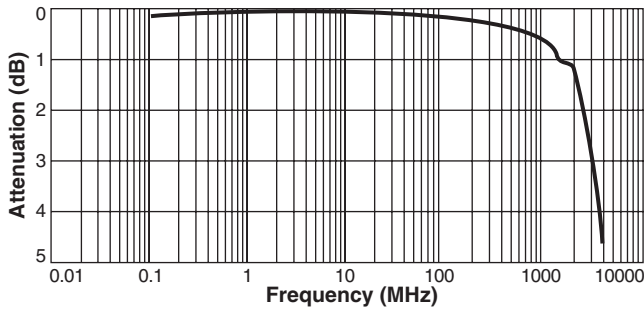
Document 748-1 Revised 10/03/18

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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



SMT Mini Wideband Transformer – JA4220-AL



*Nominal dimensions of the substrate

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



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