



SURFACE MOUNT

RF Transformer

TC4-14G2+

50Ω 200 to 1400 MHz

FEATURES

- Suitable for tin/lead and RoHS solder systems
- Good return loss
- Wideband, 200 to 1400 MHz
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-3

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for methodologies and qualifications

APPLICATIONS

- Push-pull amplifiers
- Impedance matching

ELECTRICAL SPECIFICATIONS AT 25°C

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|---------------------------------------|-----------------|------|------|------|------|
| Impedance Ratio (secondary / primary) | | | 4 | | |
| Frequency Range | | 200 | — | 1400 | MHz |
| Insertion Loss* | 200-1400 | | 3 | | dB |
| | 300-1300 | | 2 | | |
| | 800-1100 | | 1 | | |

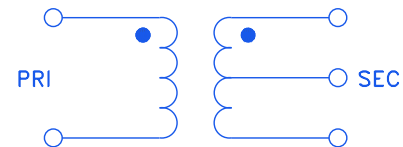
* Insertion Loss is referenced to mid-band loss, 0.7 dB typ.

MAXIMUM RATINGS

| Parameter | Ratings |
|-----------------------|----------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 0.25W |
| DC Current | 30mA |

Permanent damage may occur if any of these limits are exceeded.

CONFIG. A



REV. B
ECO-015303
TC4-14G2+
MCL NY
221019





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Mini-Circuits

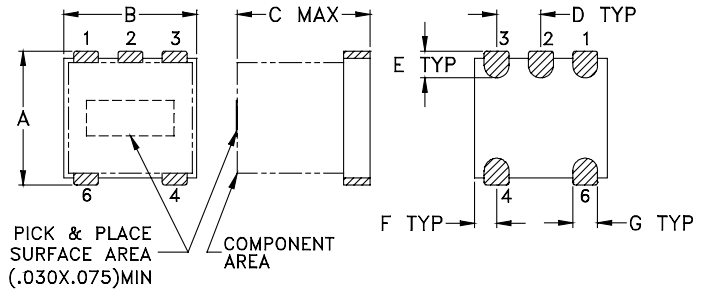
50Ω 200 to 1400 MHz

PIN CONNECTIONS

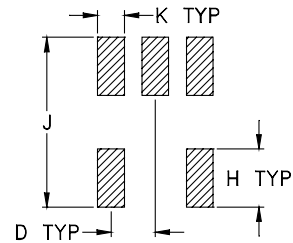
| | |
|---------------|---|
| PRIMARY DOT | 6 |
| PRIMARY | 4 |
| SECONDARY DOT | 3 |
| SECONDARY | 1 |
| SECONDARY CT | 2 |

PRODUCT MARKING: NA

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

OUTLINE DIMENSIONS (Inch/mm)

| A | B | C | D | E | F |
|------|------|------|------|-------|------|
| .150 | .150 | .150 | .050 | .030 | .025 |
| 3.81 | 3.81 | 3.81 | 1.27 | 0.76 | 0.64 |
| G | H | J | K | wt | |
| .028 | .065 | .190 | .030 | grams | |
| 0.71 | 1.65 | 4.83 | 0.76 | 0.10 | |

TAPE & REEL INFORMATION: F17



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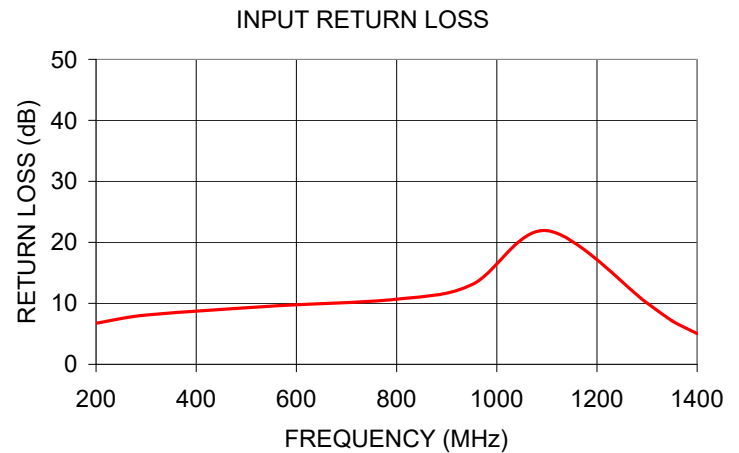
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TYPICAL PERFORMANCE DATA

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 200.00 | 1.33 | 6.74 |
| 210.00 | 1.26 | 6.88 |
| 300.00 | 1.22 | 8.07 |
| 550.00 | 0.92 | 9.54 |
| 800.00 | 0.88 | 10.68 |
| 950.00 | 0.82 | 13.05 |
| 1100.00 | 0.70 | 21.93 |
| 1300.00 | 1.53 | 10.04 |
| 1350.00 | 1.77 | 7.15 |
| 1400.00 | 2.77 | 5.05 |



NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

