

50Ω

200 to 1400 MHz

TC4-14G2+

Generic photo used for illustration purposes only

CASE STYLE: AT224-3

Maximum 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. | |

Pin Connections

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

Features

- suitable for tin/lead and RoHS solder systems
- good return loss
- wideband, 200 to 1400 MHz
- aqueous washable

Applications

- push-pull amplifiers
- impedance matching

+RoHS Compliant

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



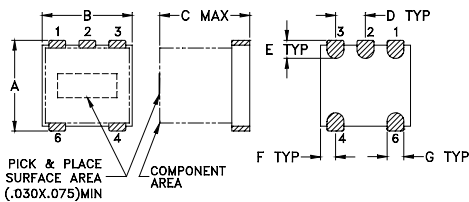
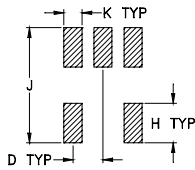
Available Tape and Reel at no extra cost

| Reel Size | Devices/Reel |
|-----------|-----------------------|
| 7" | 20, 50, 100, 200, 500 |
| 13" | 1000, 2000 |

Transformer Electrical Specifications

| Ω RATIO (Secondary/Primary) | FREQUENCY (MHz) | INSERTION LOSS* | | |
|--|--------------------|-----------------|-------------|-------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| 4 | 200-1400 | 200-1400 | 300-1300 | 800-1100 |

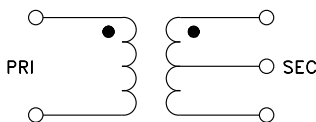
* Insertion Loss is referenced to mid-band loss, 0.7 dB typ.

Outline Drawing AT224-3**PCB Land Pattern**

Suggested Layout,
Tolerance to be within ± 0.002

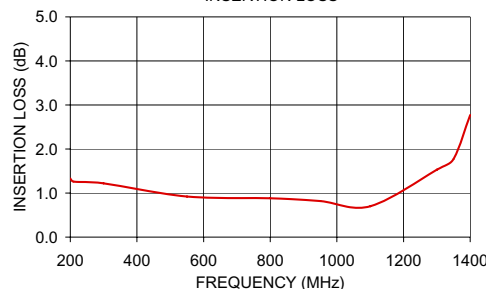
Outline Dimensions (inch)

| 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 | |

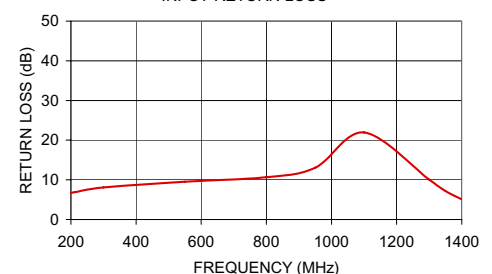
Config. A**Typical Performance Data**

| 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 |

TC4-14G2+
INSERTION LOSS



TC4-14G2+
INPUT RETURN LOSS

**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/MCLStore/terms.jsp



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