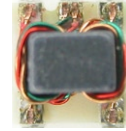


Surface Mount RF Transformer

TC4-1T

50Ω

0.5 to 300 MHz



CASE STYLE: AT224
PRICE: Contact Sales Dept.

Maximum Ratings

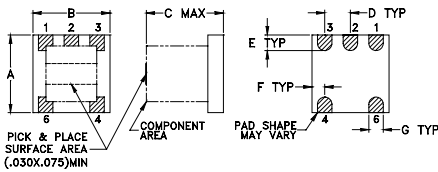
| | |
|-----------------------|----------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | .25W |
| DC Current | 30mA |

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

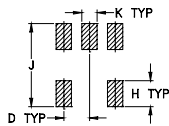
Pin Connections

| | |
|---------------|---|
| PRIMARY DOT | 6 |
| PRIMARY | 4 |
| SECONDARY DOT | 1 |
| SECONDARY | 3 |
| SECONDARY CT | 2 |
| NOT USED | 5 |

Outline Drawing AT224



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.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 | |

Features

- wide band 0.5-300 MHz, usable over 0.2-450 MHz
- good return loss
- impedance matching
- leadless surface mount
- aqueous washable

Applications

- catv

Transformer Electrical Specifications

| Ω RATIO <i>(Secondary/Primary)</i> | FREQUENCY (MHz) | INSERTION LOSS* | | |
|--|--------------------|-----------------|-------------|-------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| 4 | 0.5-300 | — | 0.5-300 | 1.5-100 |

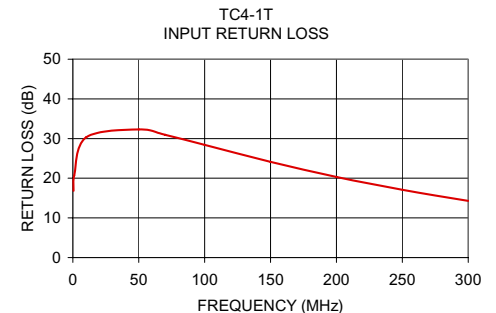
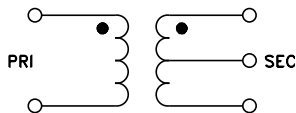
* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

NON-CATALOG

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|--------------------|---------------------------|--------------------------|
| 0.50 | 0.51 | 16.81 |
| 1.00 | 0.44 | 20.73 |
| 10.00 | 0.27 | 30.31 |
| 50.00 | 0.30 | 32.32 |
| 70.00 | 0.32 | 30.95 |
| 100.00 | 0.36 | 28.39 |
| 150.00 | 0.40 | 24.12 |
| 200.00 | 0.45 | 20.32 |
| 250.00 | 0.54 | 17.09 |
| 300.00 | 0.62 | 14.29 |

Config. A



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For detailed performance specs
& shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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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