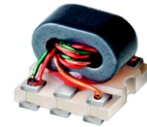


Surface Mount RF Transformer

TC2-1T+

50Ω

3 to 300 MHz



CASE STYLE: AT224-1
PRICE: \$1.29 ea. QTY (100)

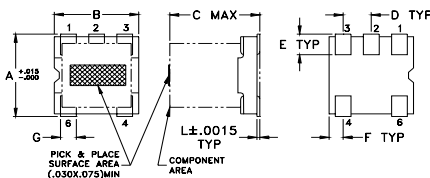
Maximum Ratings

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

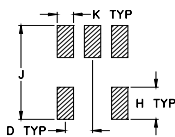
Pin Connections

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

Outline Drawing AT224-1



PCB Land Pattern

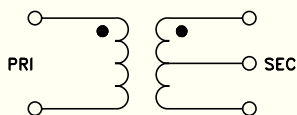


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

| | | | | | |
|------|------|------|------|------|-------|
| A | B | C | D | E | F |
| .150 | .150 | .160 | .050 | .040 | .025 |
| 3.81 | 3.81 | 4.06 | 1.27 | 1.02 | 0.64 |
| G | H | J | K | L | wt |
| .028 | .065 | .190 | .030 | .007 | grams |
| 0.71 | 1.65 | 4.83 | 0.76 | 0.18 | 0.15 |

Config. A



Features

- good return loss
- excellent amplitude unbalance (0.5 dB typ) and phase unbalance (4 deg. typ) in 1 dB bandwidth
- aqueous washable

Applications

- impedance matching
- balanced to unbalanced transformation
- push-pull amplifier

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The + suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Transformer Electrical Specifications

| MODEL NO. | Ω RATIO | FREQUENCY (MHz) | INSERTION LOSS* | | |
|-----------|---------|-----------------|-----------------|----------|----------|
| | | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| TC2-1T+ | 2 | 3-300 | — | — | 3-300 |

* Insertion Loss is referenced to mid-band loss, .4 dB typ.

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 3.00 | 0.49 | 23.75 |
| 5.00 | 0.43 | 26.01 |
| 7.00 | 0.41 | 27.23 |
| 10.00 | 0.40 | 28.16 |
| 50.00 | 0.45 | 28.46 |
| 70.00 | 0.47 | 28.39 |
| 100.00 | 0.47 | 28.44 |
| 150.00 | 0.50 | 28.83 |
| 200.00 | 0.50 | 28.95 |
| 300.00 | 0.52 | 29.36 |

TC2-1T+
INSERTION LOSS

