

Surface Mount

RF Transformer

TC4-1WG2+

50Ω 3 to 800 MHz

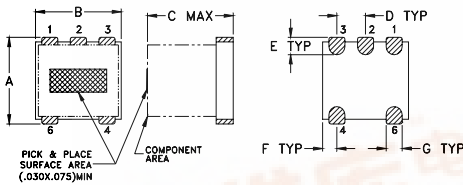
Maximum Ratings

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

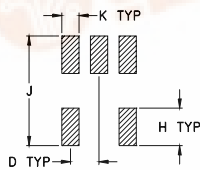
Pin Connections

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

Outline Drawing AT224-3



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

- wideband, 3-800 MHz
- good return loss
- leadless surface mount
- aqueous washable

Applications

- impedance matching
- push-pull amplifiers



CASE STYLE: AT224-3
PRICE: \$1.39 ea. QTY (100)

+ 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

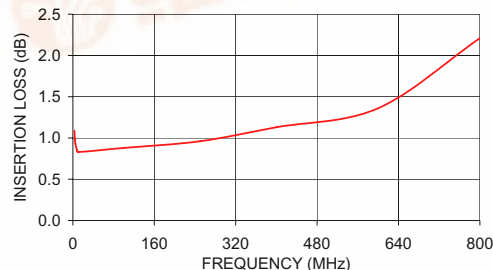
| MODEL NO. | Ω RATIO | FREQUENCY (MHz) | INSERTION LOSS* | | |
|-----------|---------|-----------------|-----------------|----------|----------|
| | | | 3 dB MHz | 2 dB MHz | 1 dB MHz |
| TC4-1WG2+ | 4 | 3-800 | 3-800 | 5-400 | 10-100 |

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 3.00 | 1.09 | 11.58 |
| 4.00 | 0.98 | 12.35 |
| 5.00 | 0.93 | 13.11 |
| 7.50 | 0.86 | 14.21 |
| 10.00 | 0.83 | 14.49 |
| 100.00 | 0.88 | 15.77 |
| 250.00 | 0.96 | 16.17 |
| 400.00 | 1.13 | 16.72 |
| 600.00 | 1.36 | 15.59 |
| 800.00 | 2.21 | 9.07 |

TC4-1WG2+ INSERTION LOSS



Config. A

