

Surface Mount RF Transformer

TC4-19G2+

50Ω 10 to 1900 MHz

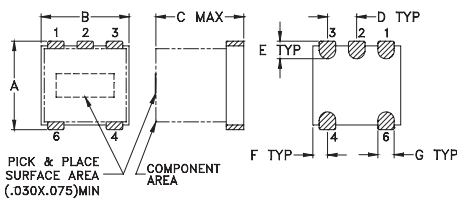
Maximum Ratings

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

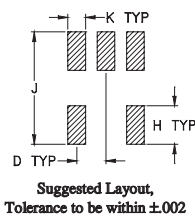
Pin Connections

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

Outline Drawing AT224-3



PCB Land Pattern



Outline Dimensions (inch/mm)

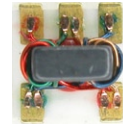
| | | | | | |
|------|------|------|------|-------|------|
| A | B | C | D | E | F |
| .150 | .150 | .150 | .050 | .030 | .025 |
| 3.81 | 3.81 | 3.81 | 1.27 | 0.76 | 0.64 |
| G | H | J | K | wt | |
| .028 | .065 | .190 | .030 | grams | |
| 0.71 | 1.65 | 4.83 | 0.76 | 0.10 | |

Features

- suitable for tin/lead and RoHS solder systems
- wideband, 10-1900 MHz
- balanced transmission line with secondary center tap
- aqueous washable

Applications

- PCS
- cellular



CASE STYLE: AT224-3
PRICE: \$1.29 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.

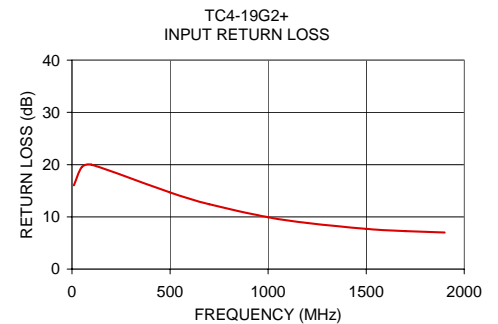
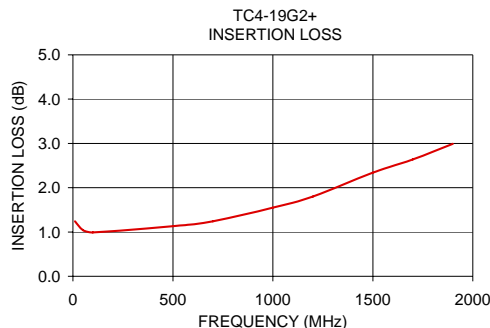
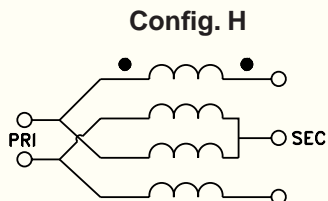
Transformer Electrical Specifications

| Ω RATIO (Secondary/Primary) | FREQ. (MHz) | INSERTION LOSS* | | | PHASE UNBALANCE (Deg.) Typ. | | AMPLITUDE UNBALANCE (dB) Typ. | |
|--------------------------------|----------------|-----------------|-------------|-------------|-----------------------------------|-------------------|-------------------------------------|-------------------|
| | | 3 dB MHz | 2 dB MHz | 1 dB MHz | 1 dB bandwidth | 2 dB bandwidth | 1 dB bandwidth | 2 dB bandwidth |
| 4 | 10-1900 | 10-1900 | 20-1000 | 30-700 | 4 | 6 | 0.3 | 0.5 |

* Insertion Loss is referenced to mid-band loss, 1.0 dB typ.

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) | AMPLITUDE UNBALANCE (dB) | PHASE UNBALANCE (deg.) |
|--------------------|---------------------------|--------------------------|--------------------------------|------------------------------|
| 10.00 | 1.24 | 16.03 | 0.06 | 0.03 |
| 50.00 | 1.04 | 19.54 | 0.04 | 0.39 |
| 100.00 | 0.99 | 19.98 | 0.01 | 0.83 |
| 500.00 | 1.13 | 14.68 | 0.02 | 3.20 |
| 700.00 | 1.24 | 12.43 | 0.17 | 3.49 |
| 1000.00 | 1.55 | 9.92 | 0.49 | 3.74 |
| 1200.00 | 1.80 | 8.83 | 0.85 | 3.53 |
| 1500.00 | 2.34 | 7.69 | 1.47 | 3.59 |
| 1700.00 | 2.64 | 7.26 | 1.74 | 4.43 |
| 1900.00 | 2.99 | 7.01 | 1.95 | 4.99 |



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RF/IF MICROWAVE COMPONENTS

REV. A
M111888
TC4-19G2+
IG/TD/CP
081013