

Surface Mount RF Transformer

50Ω 800 to 1900 MHz

TCL1-19G2+

Features

- wideband, 800 to 1900 MHz
- balanced transmission line
- leadless surface mount
- aqueous washable

Applications

- cellular
- PCN
- GPS
- baluns
- impedance matching



Generic photo used for illustration purposes only

CASE STYLE: AT224-3

+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 |

Electrical Specifications at 25°C

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|-----------------|-----------------|------|------|------|------|
| Impedance Ratio | | | 1 | | |
| Frequency Range | | 800 | | 1900 | MHz |
| Insertion Loss* | 800-1900 | | 3 | | dB |
| | 800-1400 | | 2 | | |

*Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

Maximum Ratings

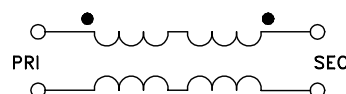
| Parameter | Ratings |
|-----------------------|----------------|
| Operating Temperature | -20°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 0.25W |
| DC Current | 30mA |

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

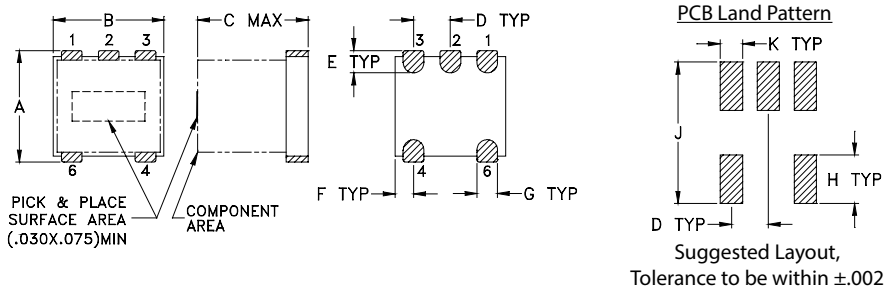
Pin Connections

| Function | Pin Number |
|---------------|------------|
| PRIMARY DOT | 6 |
| PRIMARY | 4 |
| SECONDARY DOT | 1 |
| SECONDARY | 3 |
| NOT USED | 2 |

Config. G



Outline Drawing

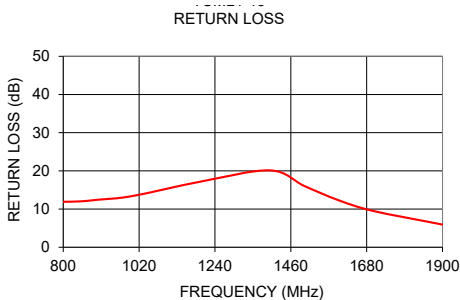


Outline Dimensions (inch mm)

| 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 | |

Typical Performance Data

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 800.00 | 0.30 | 11.91 |
| 850.00 | 0.59 | 12.02 |
| 900.00 | 0.31 | 12.44 |
| 1000.00 | 0.39 | 13.40 |
| 1200.00 | 0.14 | 17.22 |
| 1400.00 | 0.13 | 20.13 |
| 1500.00 | 0.14 | 16.01 |
| 1600.00 | 0.34 | 12.26 |
| 1700.00 | 0.55 | 9.49 |
| 1900.00 | 1.22 | 5.94 |



Additional 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