



SURFACE MOUNT

RF Transformer

TC2-112G2+

50Ω 2 to 1100 MHz

FEATURES

- Suitable for tin/lead and RoHS solder systems
- Wideband, 2 to 1100 MHz
- Good return loss
- Sted-down autotransformer
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-3

+RoHS Compliant

The +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

APPLICATIONS

- Cellular

ELECTRICAL SPECIFICATIONS AT +25°C

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|-------------------------------------|-----------------|------|-------|------|------|
| Impedance Ratio (Primary/Secondary) | | | 50/25 | | |
| Frequency Range | | 2 | | 1100 | MHz |
| Insertion Loss* | 10-800 | | 1.0 | | dB |
| | 2-1100 | | 2.0 | | |

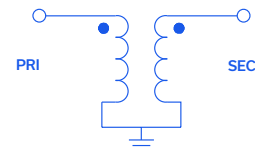
*Insertion Loss is referenced to mid-band loss, 0.4 dB typ.
Stepdown, 50 ohm primary, 1.5 pF across secondary

MAXIMUM RATINGS

| Parameter | Ratings |
|-----------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Power | 250mW |
| DC Current | 30 mA |

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

CONFIG. D



REV. B
ECO-022233
TC2-112G2+
MCL NY
240626





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Mini-Circuits

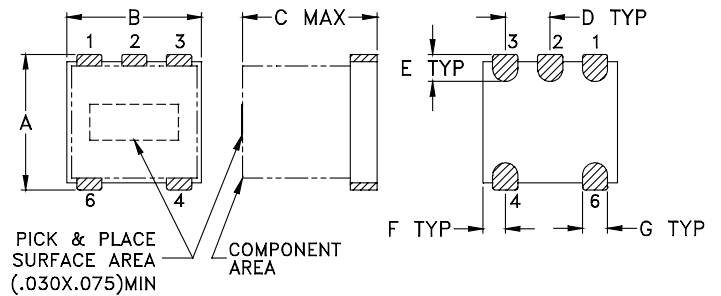
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PIN CONNECTIONS

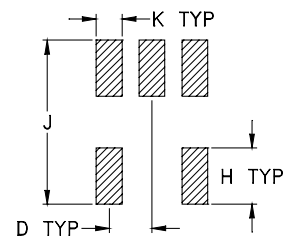
| Function | Pin Number |
|---------------|------------|
| PRIMARY DOT | 6 |
| PRIMARY | 3 |
| SECONDARY DOT | 1 |
| SECONDARY | 3 |

PRODUCT MARKING: N/A

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.002

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 |

TAPE & REEL INFORMATION: F17



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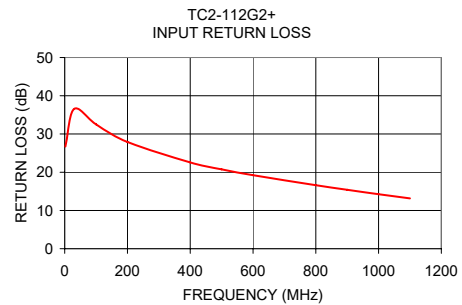
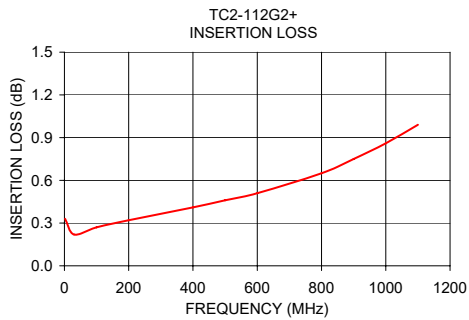
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50Ω 2 to 1100 MHz

TYPICAL PERFORMANCE DATA

| FREQUENCY (MHz) | INSERTION LOSS (dB) | INPUT R. LOSS (dB) |
|-----------------|---------------------|--------------------|
| 2.00 | 0.33 | 26.71 |
| 30.00 | 0.22 | 36.55 |
| 100.00 | 0.27 | 32.51 |
| 200.00 | 0.32 | 27.91 |
| 400.00 | 0.41 | 22.57 |
| 500.00 | 0.46 | 20.75 |
| 600.00 | 0.51 | 19.23 |
| 800.00 | 0.65 | 16.60 |
| 900.00 | 0.75 | 15.41 |
| 1000.00 | 0.86 | 14.26 |
| 1100.00 | 0.99 | 13.17 |



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/terms/viewterm.html

