

Mini-Circuits®

BALANCED top hat

RF Transformer

TRS2-1T-1+

75Ω 5 to 1200 MHz 1:2 Ratio

FEATURES

- Suitable for Tin/Lead and RoHS Solder Systems
- Wideband, 5 to 1200 MHz
- Balanced Transmission Line
- Good Return Loss, 20 dB Typ. at 1 dB Band
- Excellent Amplitude Unbalance, 0.3 dB Typ.
- Aqueous Washable

APPLICATIONS

- Balanced to Unbalanced Transformation
- Push-Pull Amplifiers
- PCS/DCS
- Cable TV
- Cellular



Generic photo used for illustration purposes only

CASE STYLE: TT1618

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (Secondary/Primary)			2		
Frequency Range		5		1200	MHz
Insertion Loss (Avg.) ¹	5-600		0.5	1.0	dB
	600-1000		1.0	1.9	
	1000-1200		1.7	2.3	
Amplitude Unbalance	5-600		0.3	1.0	dB
	600-1000		0.6	1.6	
	1000-1200		0.6	1.9	
Phase Unbalance	5-50		0.2	3	Degree
	50-1200		3	9	
Input Return Loss Single Ended	5-50	17	22		dB
	50-1000	14	22		
	1000-1200	9	17		

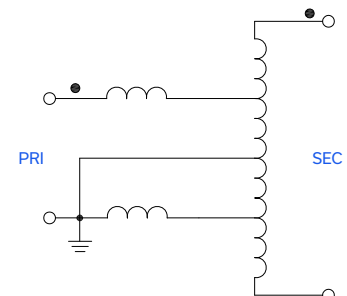
1. Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
RF Power	0.25 W
DC Current	30 mA

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

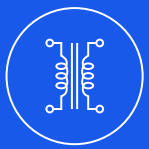
CONFIG. P1

REV. B
ECO-028366
TRS2-1T-1+
MCL NY
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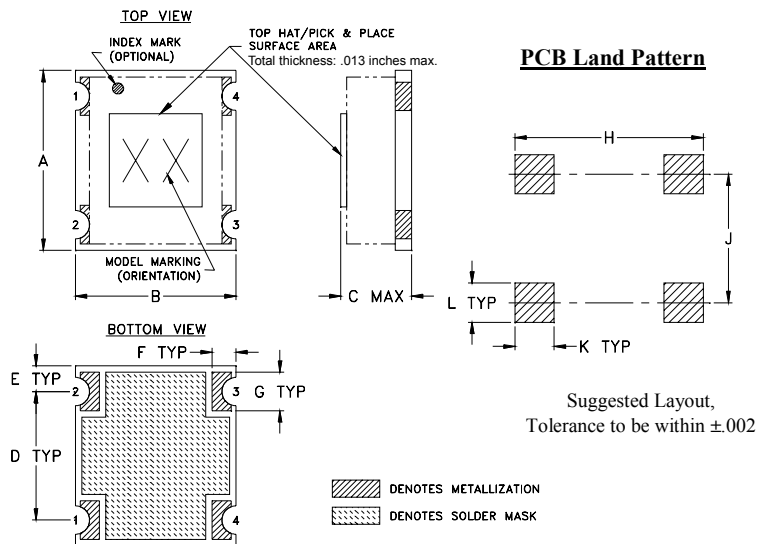
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PIN CONNECTIONS

PRIMARY DOT	1
PRIMARY	4
SECONDARY DOT	3
SECONDARY	2

PRODUCT MARKING: GC

OUTLINE DRAWING

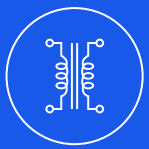


OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	F
.280	.250	.12	.200	.040	.037
7.11	6.35	3.05	5.08	1.02	0.94
G	H	J	K	L	wt.
.060	.293	.200	.061	.061	grams
1.52	7.44	5.08	1.55	1.55	2.8

TAPE & REEL INFORMATION: F2

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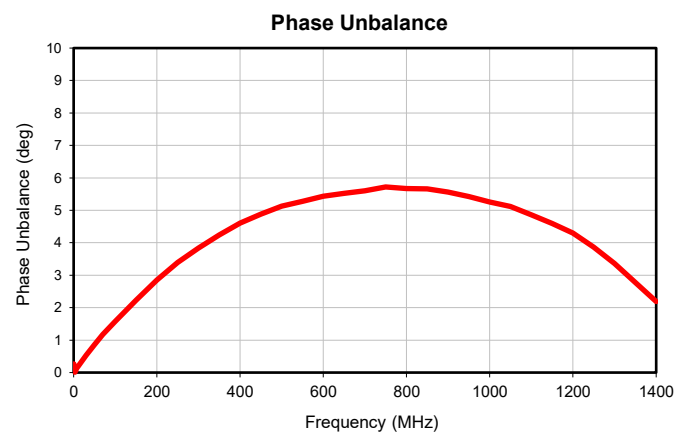
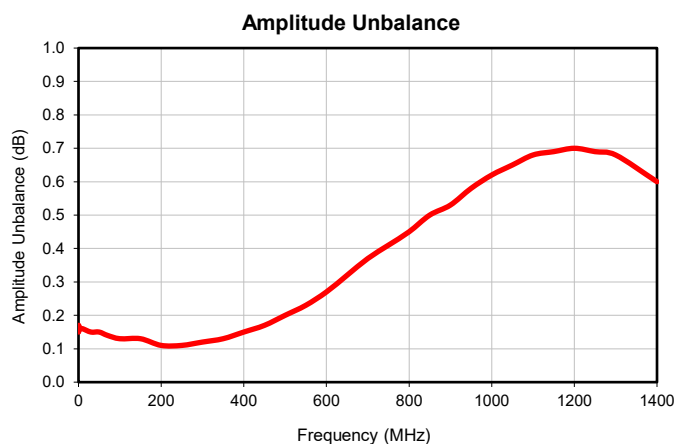
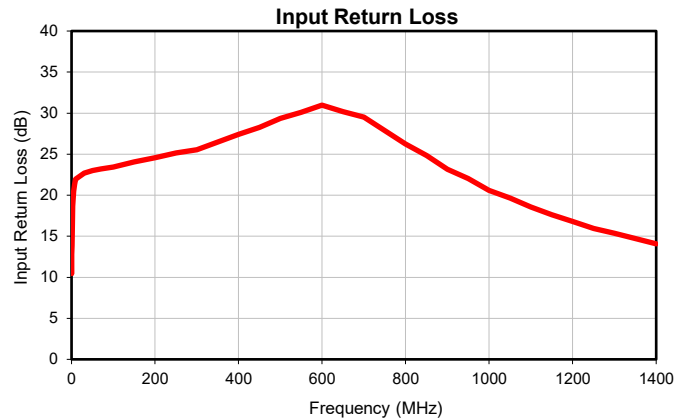
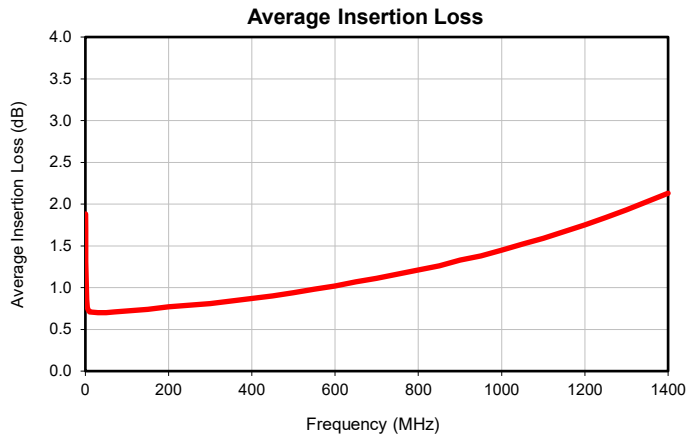
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TYPICAL PERFORMANCE CHARTS



- 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

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