

Surface Mount RF Transformer

THIS IS A TOP HAT VERSION OF REFERENCE DESIGN TC1-1-13M-17+

TC1-1-13M-17X+

75Ω 70 to 2700 MHz



CASE STYLE: 99-01-1740
PRICE: Contact Sales Dept.

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-40°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

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2

Features

- suitable for tin/lead and RoHS solder systems
- wideband, 70 to 2700 MHz
- balanced transmission line
- good return loss
- excellent amplitude unbalance and phase unbalance
- aqueous washable

Applications

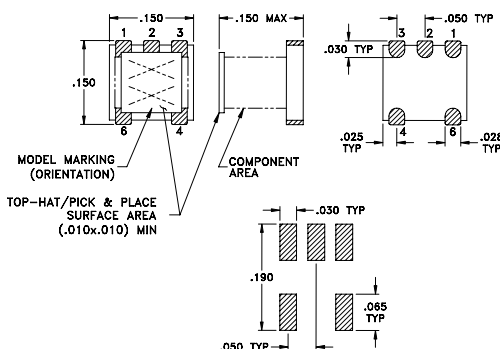
- balanced to unbalanced transformation
- push-pull amplifiers
- PCS/DCS
- MMDS

Electrical Specifications at 25°C

Ω RATIO	FREQUENCY (MHz)	AVG. INSERTION LOSS (dB) Max.	PHASE UNBALANCE (Deg.) Max.	AMPLITUDE* UNBALANCE (dB) Max.	RETURN LOSS (dB) Min.
1	70 - 2700	2	11	2	14

*Frequency where amplitude unbalance=0dB~2100 MHz

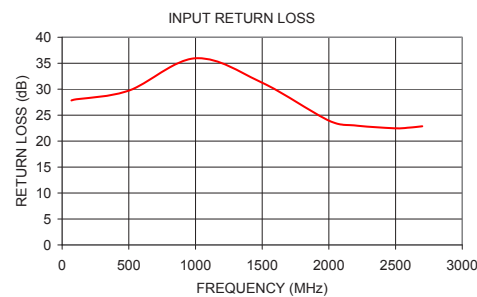
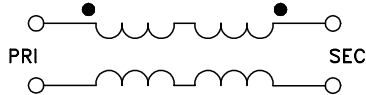
Outline Drawing



Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
70.0	0.53	27.83	1.66	0.07
100.0	0.54	28.03	1.68	0.30
500.0	0.58	29.73	1.57	1.86
1000.0	0.61	35.95	1.14	3.98
1500.0	0.67	31.24	0.58	5.81
2000.0	0.79	23.95	0.09	6.79
2200.0	0.85	23.00	0.24	6.72
2500.0	0.93	22.46	0.59	6.30
2600.0	0.96	22.59	0.69	6.07
2700.0	0.99	22.85	0.80	5.72

Config. G



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine  Provides ACTUAL Data Instantly at minicircuits.com

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

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