RF Transformer

TC1-1TG2+

50Ω 0.4 to 500 MHz

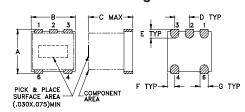
Maximum Ratings

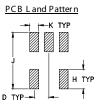
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any o	of these limits are exceeded.

Pin Connections

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

Outline Drawing AT224-3



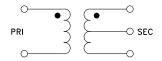


Suggested Layout, Tolerance to be within ±002

Outline Dimensions (inch)

Α	В	С	D	Е	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	Н	J	K		wt
.028	.065	.190	.030		grams
0.71	1.65	4.83	0.76		0.10

Config. A



Features

- suitable for tin/lead and RoHS solder systems
- usable over 0.4-500 MHz
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- · good return loss
- aqueous washable

Applications

- VHF/UHF receivers/transmitters
- push-pull amplifiers

CASE STYLE: AT224-3

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site



for RoHS Compliance methodologies and qualifications

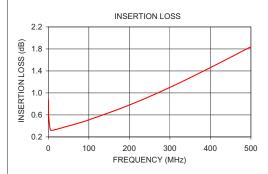
Electrical Specifications

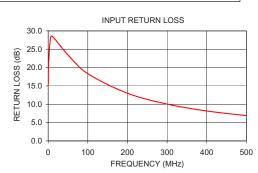
Ω RATIO	FREQUENCY (MHz)	INSI 3 dB MHz	ERTION LO	PSS* 1 dB MHz	UNBAI (De	ASE LANCE eg.) /p. 2 dB bandwidth	(d	ANCE
1	0.4-500	0.4-500	0.5-300	1-100	2	5	0.1	0.6

*Insertion Loss is referenced to mid-band loss, 0.35 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.30	0.88	15.46	0.06	0.03
1.00	0.57	21.01	0.04	0.05
5.00	0.33	27.35	0.02	0.01
10.00	0.32	28.55	0.02	0.15
50.00	0.40	23.46	0.02	0.63
100.00	0.51	18.34	0.06	1.24
200.00	0.78	13.01	0.21	2.57
300.00	1.10	10.06	0.47	3.99
400.00	1.46	8.16	0.82	5.66
500.00	1.84	6.90	1.26	7.50





- 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