Surface Mount **RF Transformer**

50Q

0.4 to 500 MHz

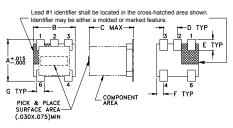
Maximum Ratings

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 AT224-1A



PCB Land Pattern ⊢к түр



Outline Dimensions (inch)

A	B	C	D	E	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
G	H	J	K		wt
.028	. 065	. 190	.030		grams
0.71	1.65	4.83	0.76		0.15

Config. A С \odot PRI O SEC С

Features

- 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
- · plastic base with leads
- aqueous washable

Applications

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





CASE STYLE: AT224-1A PRICE: \$2.19 ea. QTY(20) \$1.19 ea. QTY(100)

+RoHS Compliant

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

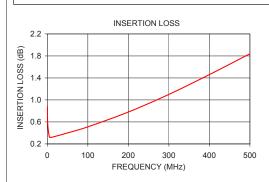


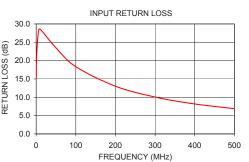
Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.		
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
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 typ.

Typical Performance Data INSERTION FREQUENCY INPUT AMPLITUDE PHASE LOSS R. LOSS UNBALANCE UNBALANCE (MHz) (dB) (dB) (dB) (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 0.02 0.63 23.46 100.00 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 1.46 400.00 8.16 0.82 5.66 500.00 1.84 6.90 1.26 7.50







For detailed performance specs

IF/RF MICROWAVE COMPONENTS

REV. C M111888 TC1-1T+ ED-9236/2 IG/TD/CP/AM 120508

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 tests performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and terms and conditions (collective), "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 performance data www.minicircuits.com/MCLStore/terms.jsp.