RF Transformer

50Ω 3 to 300 MHz

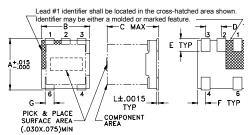
Maximum Ratings

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 of	f these limits are exceeded.

Pin Connections

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

Outline Drawing AT224-1



PCB Land Pattern

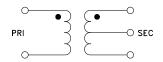


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

Α	В	С	D	Ε	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
_	- 11		1/		
G	Н	J	K		wt
G .028	H .065	J .190	K .030		wt grams

Config. A



Features

- good return loss
- excellent amplitude unbalance (0.5 dB typ) and phase unbalance (4 deg. typ) in 1 dB bandwidth
- plastic base with leads
- agueous washable

Applications

- impedance matching
- balanced to unbalanced transformation
- push-pull amplifier

CASE STYLE: AT224-1

Benefits

- Allows faster pick-and-place
- · Enables visual identification marking

+RoHS Compliant

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

Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INS	ERTION LO	OSS*	UNBAI (De	ASE LANCE eg.) /p. 2 dB bandwidth	UNBAI (d	ITUDE LANCE B) /p. 2 dB bandwidth
2	3-300	_	_	3-300	4	_	0.5	

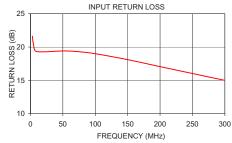
^{*} Insertion Loss is referenced to mid-band loss, .4 dB typ.

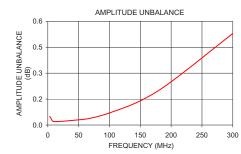


Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
3.00	0.38	21.63	0.05	0.54
5.00	0.33	20.24	0.04	0.57
10.00	0.34	19.32	0.02	0.45
50.00	0.37	19.41	0.03	0.56
70.00	0.40	19.34	0.04	0.64
100.00	0.44	19.00	0.07	0.86
150.00	0.52	18.11	0.14	1.30
200.00	0.60	17.06	0.25	1.68
300.00	0.80	15.00	0.53	2.44









- 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.ninicircuits.com/MCLStore/terms.jsp

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