RF Transformer



Generic photo used for illustration purposes only

CASE STYLE: AT224-1

- Addition of Top hat™ feature
- · 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



50Ω 350 to 1500 MHz

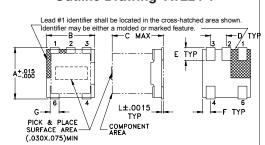
Maximum Ratings

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 those limits are exceeded

Pin Connections

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

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	Е	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt	- 1	K	J	Н	G
grams	_	.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

Config. G



Features

- wideband, 350 to 1500 MHz
- · balanced transmission line
- good return loss
- plastic base with leads
- · aqueous washable

Applications

- PCS
- cellular
- · impedance matching
- balanced amplifier
- baluns

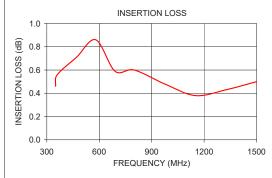
Electrical Specifications

MODEL NO.	Ω RATIO	FREQUENCY (MHz)	3 dB MHz	NSERTION LOSS 2 dB MHz	S* 1 dB MHz
TC1-15+	1	350-1500	_	350-1500	800-1500

Insertion Loss is referenced to mid-band loss, 0.35 dB typ

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
350.00	0.46	8.47	
360.00	0.56	8.38	
470.00	0.71	7.92	
580.00	0.86	7.58	
690.00	0.59	8.03	
800.00	0.60	8.62	
975.00	0.48	11.81	
1150.00	0.38	19.36	
1325.00	0.43	29.22	
1500.00	0.50	30.48	





- 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