RF Transformer

CASE STYLE: AT224-1

*Addition of Top hat™ feature Benefits

- Allows faster pick-and-place

+RoHS Compliant

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

50Ω 2 to 200 MHz

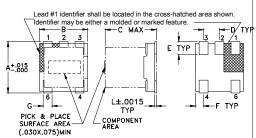
Maximum Ratings

Operating Temperature	-20°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

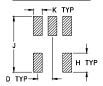
Pin Connections

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

Outline Drawing AT224-1



PCB Land Pattern

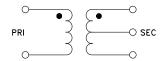


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt	L	K	J	Н	G
grams		.030	.190	.065	.028
0.15	0.18	0.76	4.83	1.65	0.71

Config. A



Features

- good return loss
- excellent amplitude unbalance, 0.1dB typ. and phase unbalance, 1 deg typ. in 1dB band width
- plastic base with leads
- aqueous washable

Applications

• impedance matching

Transformer Electrical Specifications

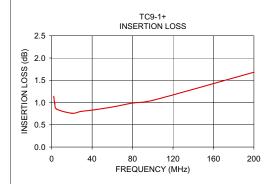
Ω	FREQUENCY			S*	
(Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz	
9	2-200	2-200	3-100	5-40	

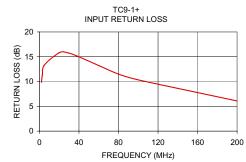
^{*} Insertion Loss is referenced to mid-band loss, 0.7 dB typ

Available Tape and Reel at no extra cost				
Reel Size	Devices/Reel			
7"	20, 50, 100, 200, 500			
13"	1000, 2000			

Typical Performance Data

FREQUE (MHz		N INPUT R. LOSS (dB)	3
2.00	1.14	9.85	
3.00	0.98	11.35	
5.00	0.85	13.33	
20.00	0.76	15.80	
29.00	0.80	15.77	
40.00	0.83	14.99	
60.00	0.90	13.22	
80.00	0.99	11.50	
100.00	1.05	10.34	
200.00	1.68	6.08	





- 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