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

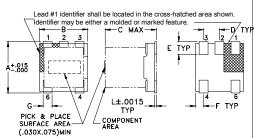
Maximum Ratings

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	f these limits are exceeded

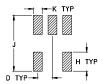
Pin Connections

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
G	Н	.1	K	- 1	wt
G .028	H .065	J .190	.030		wt grams

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

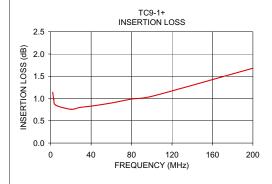
Ω	FREQUENCY	INSERTION LOSS*		
(Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
9	2-200	2-200	3-100	5-40

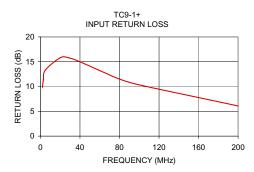
^{*} Insertion Loss is referenced to mid-band loss, 0.7 dB typ

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		I INPUT R. LOSS (dB)	
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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

 $\frac{\text{Mini-Circuits}}{\text{TC9-1+}}:$