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

50Q 5 to 300 MHz

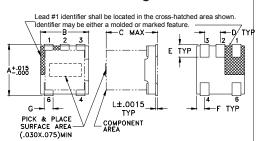
Maximum Ratings

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 those 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
arams				• • •	-
grams	.007	.030	.190	.065	.028

Config. A



Features

- excellent amplitude unbalance (0.3 dB typ) and phase unbalance (5 deg. typ) in 1 dB bandwidth
- plastic base with leads
- good return loss
- aqueous washable

Applications

- impedance matching
- balanced antennas

Transformer Electrical Specifications

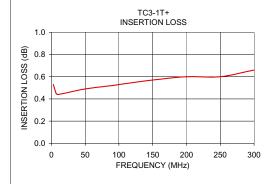
Ω	FREQUENCY			
(Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
3	5-300	_	_	5-300

^{*} Insertion Loss is referenced to mid-band loss, 0.4 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

FI	REQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
	3.00	0.53	21.45	
	7.00	0.45	24.23	
	10.00	0.44	24.89	
	50.00	0.49	24.99	
	90.00	0.52	24.79	
	100.00	0.53	24.74	
	150.00	0.57	24.15	
	200.00	0.60	23.65	
	250.00	0.60	22.64	
	300.00	0.66	21.73	





- 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