Surface Mount **RF Transformer** 50Ω 0.5 to 550 MHz

Features

- low insertion loss, 0.4 dB typ.in 1 dB Bandwidth
- excellent return loss, 25 dB typ. in 1 dB Bandwith • plastic base with leads
- aqueous washable

Applications

- impedance matching, 50 to 75 ohms
- balanced amplifier





Generic photo used for illustration purposes only

CASE STYLE: AT224-1A

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

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

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary/Primary)			1.5		Ohm
Frequency Range		0.5		550	MHz
	0.5-550		3		
Insertion Loss*	1-350		2		dB
	2-200		1		

*Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

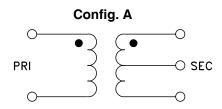
Maximum Ratings

Parameter	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 these limits are exceeded.

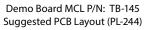
Pin Connections

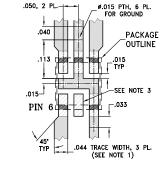
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY CT	2
SECONDARY	3
NOT USED	5

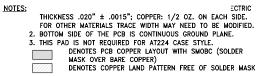


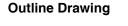


TC1.5-52T+

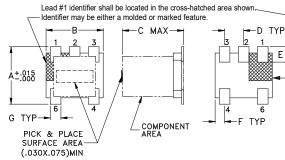








E TYP





F	E	D	C	B	A
.025	.040	.050	.160	. 150	. 150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	H	G
grams		.030	. 190	. 065	.028
0.15		0.76	4.83	1.65	0.71

Typical Performance Data

D TYP

PCB Land Pattern

Suggested Layout,

Tolerance to be within±.002

-К ТҮР

H TYP

	FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
	0.50	0.82	15.72	
	1.00	0.61	19.84	
	5.00 10.00	0.33 0.29	28.81 32.35	
	50.00	0.35	28.60	
	100.00	0.41	23.52	
	200.00	0.53	18.07	
	250.00 300.00	0.61 0.70	16.13 14.71	
	400.00	0.90	12.52	
	550.00	1.28	10.19	
2.0 1.6 1.2 0.8 0.4		50 (B) 40 (B) 20 30 20 20 10 10	INPUT RETURN LOSS	
0.0		₩ 10 <u></u>		

Additional Notes

- 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

