Surface Mount **RF Transformer**

50Q

0.5 to 300 MHz

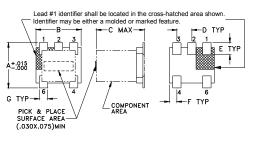
Maximum Ratings

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 of these limits are exceeded.					

Pin Connections

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

Outline Drawing AT224-1A



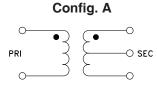
PCB Land Pattern



Tolerance to be within ±.002

Outline Dimensions (inch)

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



Features

- wide band 0.5-300 MHz,
- usable over 0.2-450 MHz
- good return loss
- impedance matching
- plastic base with leads
- aqueous washable

Applications

catv

Pgraded Version TC4-1T+



CASE STYLE: AT224-1A

*Addition of Top hat™ feature

Benefits

 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

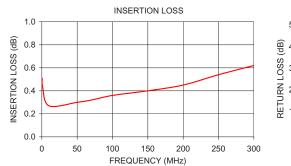
Transformer Electrical Specifications FREQUENCY **INSERTION LOSS*** 0 RATIO (MHz) 3 dB 2 dB 1 dB (Secondary/Primary) MHz MHz MHz 4 0.5-300 0.5-300 1.5-100

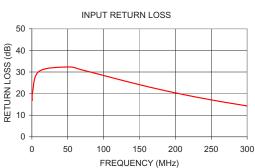
* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.



Typical Performance Data

rypiour i oriormanoo bata						
FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)				
0.50	0.51	16.81				
1.00	0.44	20.73				
10.00	0.27	30.31				
50.00	0.30	32.32				
70.00	0.32	30.95				
100.00	0.36	28.39				
150.00	0.40	24.12				
200.00	0.45	20.32				
250.00	0.54	17.09				
300.00	0.62	14.29				
	FREQUENCY (MHz) 0.50 1.00 10.00 50.00 70.00 100.00 150.00 200.00 250.00	FREQUENCY (MHz) INSERTION LOSS (dB) 0.50 0.51 1.00 0.44 10.00 0.27 50.00 0.30 70.00 0.32 100.00 0.44 200.00 0.45 250.00 0.54	FREQUENCY (MHz) INSERTION LOSS (dB) INPUT R. LOSS (dB) 0.50 0.51 16.81 1.00 0.44 20.73 10.00 0.27 30.31 50.00 0.30 32.32 70.00 0.36 28.39 150.00 0.40 24.12 200.00 0.45 20.32 250.00 0.54 17.09			





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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp



