Surface Mount **RF** Transformer

50Ω

2 to 500 MHz

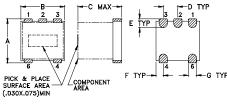
Maximum Ratings

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.				

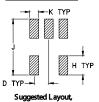
Pin Connections

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

Outline Drawing AT224-3



PCB Land Pattern



Tolerance to be within ±002

Outline Dimensions (inch)

,	•				
F	Е	D	С	В	А
.025	.030	.050	.150	.150	.150
0.64	0.76	1.27	3.81	3.81	3.81
wt		к	J	н	G
grams		.030	.190	.065	.028
0.10		0.76	4.83	1.65	0.71
grams		.030		.065	.028

Config. A

O SEC

Features

- suitable for tin/lead and RoHS solder systems
- wideband, 2 to 500 MHz
- good return loss
- · aqueous washable

Applications

- push-pull amplifier
- · impedance matching



TC8-1G2+



CASE STYLE: AT224-3

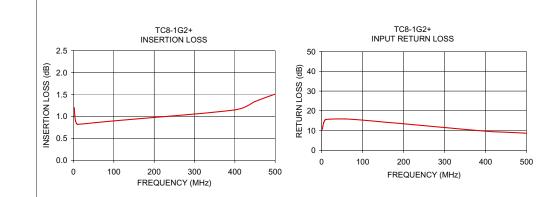
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

Transformer Electrical Specifications						
Ω RATIO (Secondary/Primary)	FREQUENCY	INSERTION LOSS*				
	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz		
8	2-500	2-500	5-400	10-100		

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data FREQUENCY INSERTION INPUT (MHz) LOSS **B. LOSS** (dB) (dB) 2.00 1.20 10.65 3.00 1.03 12.20 5.00 0.90 14.01 7 50 0.84 15 09 10.00 0.82 15.64 55.00 0.86 15.88 100.00 0.90 15.29 400.00 9.68 1.15 450.00 1.34 9.15 500.00 1.51 8.67



Notes

C

PRI

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

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