RF Transformer

1.5 to 500 MHz 50Ω

TC1-1G2+



Generic photo used for illustration purposes only 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 Devices/Reel 20, 50, 100, 200, 500 1000, 2000

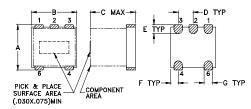
Maximum Ratings

Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power	0.25W			
DC Current	30mA			
Down and the second sec				

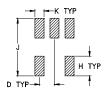
Pin Connections

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

Outline Drawing AT224-3



PCB Land Pattern

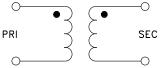


Suggested Layout, Tolerance to be within ±002

Outline Dimensions (inch)

F	Ε	D	С	В	Α
.025	.030	.050	.150	.150	.150
0.64	0.76	1.27	3.81	3.81	3.81
wt		K	J	Н	G
grams		.030	.190	.065	.028
0.10		0.76	4.83	1.65	0.71

Config. C



Features

- suitable for tin/lead and RoHS solder systems
- good return loss
- usable over 0.4-500 MHz
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg. typ. in 1 dB bandwidth
- aqueous washable

Applications

- balanced to unbalanced transformation
- push-pull amplifiers

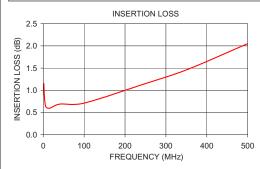
Transformer Electrical Specifications

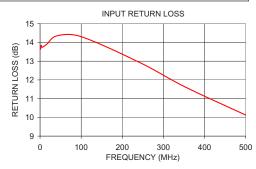
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1	1.5-500	1.5-500	2.5-400	5-350

Insertion Loss is referenced to mid-band loss, 0.6 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
1.51 2.49 4.35 6.87 16.75	1.15 0.91 0.72 0.62 0.60	13.64 13.85 13.75 13.76 13.91	
40.86 99.67 243.10 353.08 502.30	0.69 0.71 1.13 1.47 2.06	14.35 14.31 12.92 11.62 10.10	





- 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

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