RF Transformer

TC1-1G2+

50Ω

1.5 to 500 MHz

Maximum 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

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

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



CASE STYLE: AT224-3 PRICE: \$2.39 ea. QTY (20) \$1.39 ea. QTY (100)

+RoHS Compliant

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



Applications

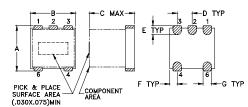
- balanced to unbalanced transformation
- push-pull amplifiers

Transformer Electrical Specifications

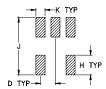
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		1 dB
		MHz	MHz	MHz
1	1.5-500	1.5-500	2.5-400	5-350

^{*} Insertion Loss is referenced to mid-band loss, 0.6 dB tvp.

Outline Drawing AT224-3



PCB Land Pattern



Suggested Layout, Tolerance to be within ±002

Outline Dimensions (inch)

Typical Performance Data

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

С В D Ε 150 .150 .150 .050 .030 .025 3.81 1.27 0.64 G Н wt .028 .065 .190 .030 grams

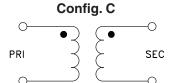
0.76

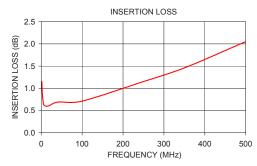
0.10

4.83

0.71

1.65







For detailed performance specs