RF Transformer

-40°C to 85°C

-55°C to 100°C

0.25W

30mA

0.15 to 350 MHz 50Q

Features

- good return loss
- usable over 0.05-400 MHz
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- plastic base with leads

Applications

- balanced to unbalanced transformation
- · push-pull amplifiers



Generic photo used for illustration purposes only

CASE STYLE: AT224-1

- Addition of Top hat™ feature
- · 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



Electrical Specifications

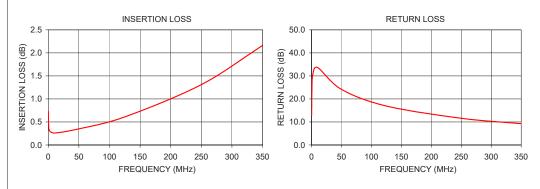
· · · · · · · · · · · · · · · · · · ·								
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*						
		3 dB MHz	2 dB MHz	1 dB MHz				
1	0.15-350	0.15-350	0.25-250	0.3-125				

* Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

Config. C CPRI SEC

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.15	0.73	12.89	
0.25	0.61	16.56	
0.30	0.57	17.77	
0.50	0.44	23.21	
2.00	0.31	30.49	
10.00	0.26	33.62	
50.00	0.35	24.13	
125.00	0.61	16.90	
250.00	1.31	11.59	
350.00	2.16	9.26	



Pin Connections

Maximum Ratings

Operating Temperature

Storage Temperature

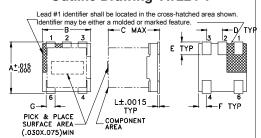
RF Power

DC Current

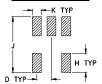
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing AT224-1



PCB Land Pattern

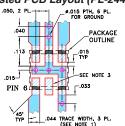


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
					_
wt	_	K	J	Н	G
grams	.007	.030	.190	.065	.028
0.15	0.18	0.76	4.83	1.65	0.71

Demo Board MCL P/N: TB-145 Suggested PCB Layout (PL-244)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS. 0.20" ± .0015"; COPPER: 1/2 0Z. ON EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE POB IS CONTINUOUS GROUND PLANE. 3. THIS PAD IS NOT REQUIRED FOR AT224 CASE STYLE. DENOTES POB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAYOUT WITH SMOBC SOLDER MASK OVER BARE COPPER)

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.

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