RF Transformer



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



50Ω 350 to 1500 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 o	of these limits are exceeded

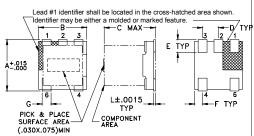
Pin Connections

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

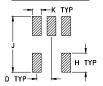
Applications

- PCS
- cellular
- · impedance matching
- balanced amplifier
- baluns

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Features

- wideband, 350 to 1500 MHz
- · balanced transmission line
- good return loss
- plastic base with leads
- · aqueous washable

Electrical Specifications

MODEL NO.	RATIO	FREQUENCY (MHz)	3 dB MHz	NSERTION LOSS 2 dB MHz	S* 1 dB MHz
TC1-15+	1	350-1500	_	350-1500	800-1500

Insertion Loss is referenced to mid-band loss, 0.35 dB typ

Outline Dimensions (inch)

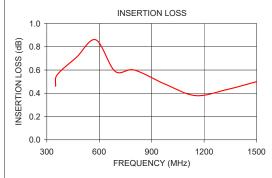
F	Ε	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt	1	K	J	Н	G
grams		.030	.190	.065	.028
ັ ∩ 15	0.18	0.76	4.83	1.65	0.71

Config. G



Typical Performance Data

FREQUENC (MHz)	CY INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
350.00	0.46	8.47	
360.00	0.56	8.38	
470.00	0.71	7.92	
580.00	0.86	7.58	
690.00	0.59	8.03	
800.00	0.60	8.62	
975.00	0.48	11.81	
1150.00	0.38	19.36	
1325.00	0.43	29.22	
1500.00	0.50	30.48	





- 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.

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