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



75O 0.3 to 475 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 o	of these limits are exceeded

Pin Connections

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

Applications

Features

• matching laser diode

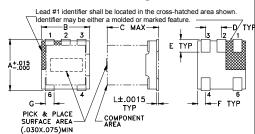
· aqueous washable

• wideband 0.3-475 MHz

• step-down 9:1 autotransformer • plastic base with leads

• good return loss, 23 dB typ in 1 dB bandwidth

Outline Drawing AT224-1



PCB Land Pattern

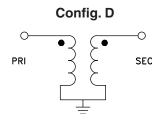


Suggested Layout, Tolerance to be within ±.002

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	L	K	J	Н	G
wt grams		.030	J .190	H .065	G .028

Demo Board MCL P/N: TB-276



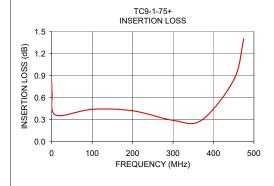
Transformer Electrical Specifications

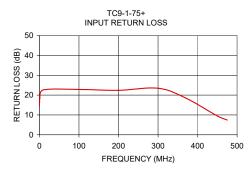
Ω	FREQUENCY		INSERTION LOSS*	
RATIO (Primary/Secondary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
75/8	0.3-475	0.3-475	0.5-450	0.9-370

Insertion Loss is referenced to mid-band loss, 0.4 dB typ. Stepdown, 75 ohm primary, 51 pF across secondary

Typical Performance Data

FREQUEN (MHz)		INPUT R. LOSS (dB)	
0.30	0.80	14.70	
0.50	0.71	16.80	
0.90	0.66	18.13	
10.00	0.36	22.63	
100.00	0.44	22.86	
200.00	0.42	22.40	
300.00	0.29	23.48	
370.00	0.29	18.53	
450.00	0.84	9.48	
475.00	1.40	7.44	





- 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