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



50O 2 to 1100 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 an	v of these limits are exceeded

Pin Connections

PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

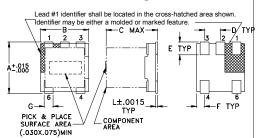
Features

- wideband 2-1100 MHz
- · good return loss
- terminations, solder plated with nickel barrier for solderability and excellent leach resistance
- step-down autotransformer
- · plastic base with leads
- aqueous washable

Applications

• cellular

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

.025	
0.64	
wt	
wt ams	

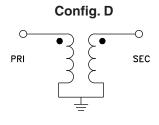
Transformer Electrical Specifications

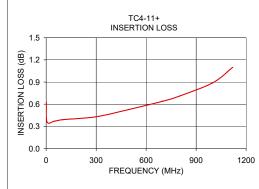
Ω	FREQUENCY			
(Primary/Secondary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
50/12.5	2-1100	_	2-1100	5-700

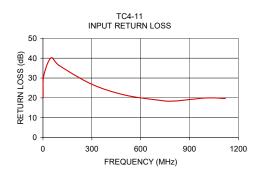
Insertion Loss is referenced to mid-band loss, 0.4 dB tvp. Stepdown, 50 ohm primary, 5.2 pF across secondary

Typical Performance Data

F	FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
	1.00	0.63	20.35	
	5.00	0.36	31.19	
	50.00	0.37	40.18	
	100.00	0.39	36.30	
	300.00	0.43	26.86	
	500.00	0.53	21.49	
	700.00	0.64	18.96	
	800.00	0.71	18.37	
	1000.00	0.89	19.97	
	1120.00	1.10	19.69	







- 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