RF Transformer

TC4-1WA+

50Q

3 to 800 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 demage may occur if any o	of those limits are evenedor

Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

Features

- wideband, 3-800 MHz
- good return loss
- plastic base with leads
- aqueous washable

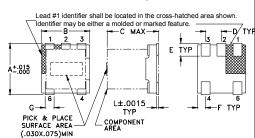
CASE STYLE: AT224-1

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

Available Tape and Reel at no extra cost Devices/Reel 20, 50, 100, 200, 500 1000, 2000 Reel Size

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout Tolerance to be within ±.002

Outline Dimensions (inch)

Α	В	С	D	Ε	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
G	н	1	K		wt
G .028	H .065	J .190	K .030	_	wt grams

Applications

- impedance matching
- push-pull amplifiers

Transformer Electrical Specifications

Ω	FREQUENCY		INSERTION LOSS*		
(Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz	
4	3-800	3-800	5-400	10-100	

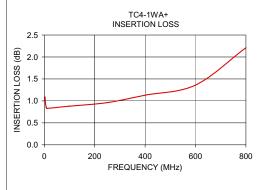
^{*} Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

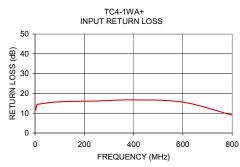
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
3.00	1.09	11.58	
4.00	0.98	12.35	
5.00	0.93	13.11	
7.50	0.86	14.21	
10.00	0.83	14.49	
100.00	0.88	15.77	
250.00	0.96	16.17	
400.00	1.13	16.72	
600.00	1.36	15.59	
800.00	2.21	9.07	

Config. A







- Notes
 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