RF Transformer

TC4-1W-7ALN+

50Q

5 to 500 MHz

Maximum Ratings

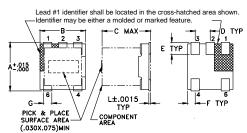
Operating Temperature	-40℃ to 85℃
Storage Temperature	-55℃ to 100℃
RF Power	0.25W
DC Current	150*mA

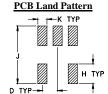
*Applied through center tap, equal current to secondary dot & secondary. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2
NOT USED	5

Outline Drawing AT224-1





Suggested Layout. Tolerance to be within ±.002

Outline Dimensions (inch)

Α	В	С	D	Е	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

Config. A



Features

- · good return loss
- impedance matching
- plastic base with leads
- aqueous washable

CASE STYLE: AT224-1 PRICE: \$1.19 ea. QTY (100)

+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 Reel Size Devices/Reel 7" 20, 50, 100, 200, 500 13" 1000, 2000

Applications

- wireless infrastructure
- Impedance matching

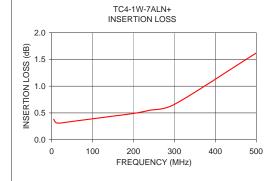
Transformer Electrical Specifications

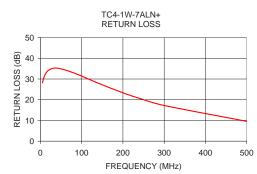
Ω	FREQUENCY	INSERTION LOSS		
RATIO (Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz
4	5-500	5-500	10-300	25-200

Note: Electrical specifications defined with DC current at secondary and secondary dot equal. For DC imbalance of up to 7.5mA, the insertion loss degrades less than 1 dB.

Typical Performance Data

FREQUENC (MHz)	Y INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
5.0	0.38	28.17	
10.0	0.32	31.57	
20.0	0.31	34.24	
40.0	0.33	35.27	
80.0	0.37	33.01	
140.0	0.43	28.01	
200.0	0.49	23.35	
300.0	0.66	17.23	
400.0	1.02	12.75	
500.0	1.62	9.57	





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