RF Transformer

TC4-1W-7ALN+

50Q

5 to 500 MHz

Maximum Ratings

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

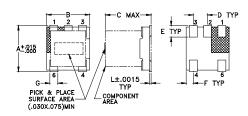
*Applied through center tap, equal current to secondary dot & secondary.

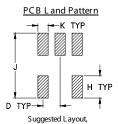
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

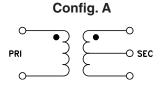
Outline Drawing AT224-1





Tolerance to be within +.002 Outline Dimensions (inch)

A . 150 3.81	B	C	D	E	F
	. 150	.160	. 050	. 040	.025
	3.81	4.06	1.27	1.02	0.64
G . 028 0.71	H . 065 1.65	J . 190 4.83	K . 030 0.76		grams



Features

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

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

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Applications

- wireless infrastructure
- Impedance matching

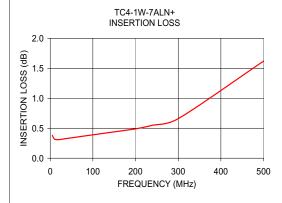
Transformer Electrical Specifications

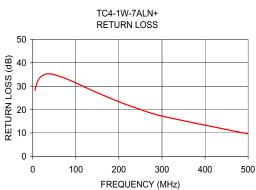
Ω	FREQUENCY	INSERTION LOSS			
RATIO (Secondary/Primary)	(MHz)	3 dB MHz	2 dB MHz	1 dB MHz	
4	5-500	5-500	10-300	25-200	

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

FREQUENCY (MHz)	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	





For detailed performance specs

