

RF Transformer

TC4-1W-7ALN+

 50Ω 5 to 500 MHz

FEATURES

- Good return loss
- · Impedance matching
- · Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT224-1

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

APPLICATIONS

- · Wireless infrastructure
- · Impedance matching

ELECTRICAL SPECIFICATIONS AT 25°C

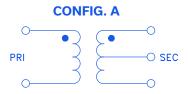
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary/Primary)			4		Ohm
Frequency Range		5		500	MHz
Insertion Loss*	5-500		3		dB
Phase Unbalance	10-300		2		Deg.
Amplitude Unbalance	25-200		1		dB

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.

ABSOLUTE MAXIMUM RATINGS

Parameter	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.





SURFACE MOUNT

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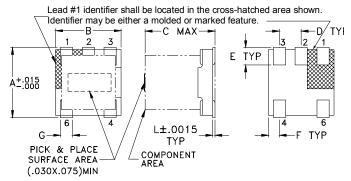
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PIN CONNECTIONS

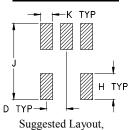
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2
NOT USED	5

PRODUCT MARKING: N/A

OUTLINE DRAWING



PCB Land Pattern



Tolerance to be within ±.002

OUTLINE DIMENSIONS $\binom{lnch}{mm}$

Α	В	С	D	E	F	G	Н	J	K
.150	.150	.160	.050	.040	.025	.028	.065	.190	.030
3.81	3.81	4.06	1.27	1.02	0.64	0.71	1.65	4.83	0.76
Weight: 0).15 gran	าร							

TAPE & REEL INFORMATION: F17



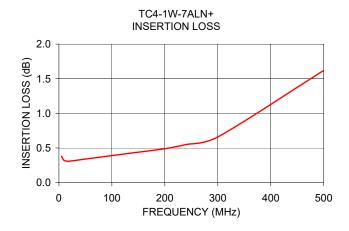
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TYPICAL PERFORMANCE DATA

11110/121211110111111111111111111111111						
INSERTION LOSS (dB)	INPUT R. LOSS (dB)					
0.38	28.17					
0.32	31.57					
0.31	34.24					
0.33	35.27					
0.37	33.01					
0.43	28.01					
0.49	23.35					
0.66	17.23					
1.02	12.75					
1.62	9.57					
	LOSS (dB) 0.38 0.32 0.31 0.33 0.37 0.43 0.49 0.66 1.02					





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/terms/viewterm.html