SURFACE MOUNT

RF Transformer

Mini-Circuits

50Ω 3 to 800 MHz

FEATURES

- Wideband, 3-800 MHz
- Good return loss
- Plastic base with leads
- Aqueous washable

TC4-1W+

*Addition of Top Hat[®] feature Benefits

- Allows faster pick-and-place
- Enables visual identification marking



Generic photo used for illustration purposes only CASE STYLE: AT224-1A

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

APPLICATIONS

- Impedance matching
- Push-pull amplifiers

ELECTRICAL SPECIFICATIONS AT 25°C

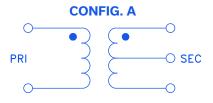
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			4		
Frequency Range		3		800	MHz
	3-800		3.0		
Insertion Loss*	5-400		2.0		dB
	10-100		1.0		

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

MAXIMUM RATINGS

Parameter	Ratings	
Operating Temperature	-40°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power	0.25W	
DC Current	30mA	

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



REV. G ECO-015303 TC4-1W+ MCL NY 220913

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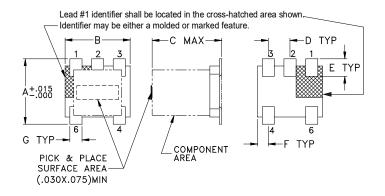
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PIN CONNECTIONS

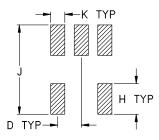
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

PRODUCT MARKING: NA

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout, Tolerance to be within±.002

OUTLINE DIMENSIONS (Inch)

F	E	D	C	B	A
.025	.040	.050	.160	. 150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	H	G
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

TAPE & REEL INFORMATION: F17

SURFACE MOUNT



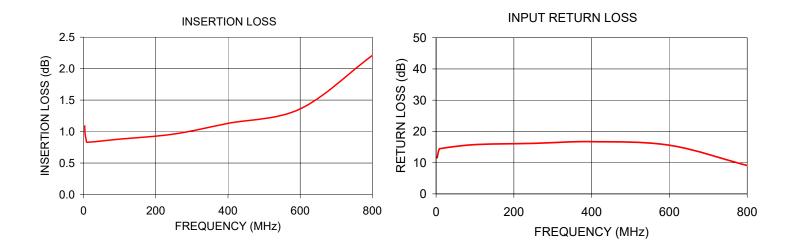


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3 to 800 MHz

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



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.

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 C. 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

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