

SURFACE MOUNT

RF Transformer

50Ω 3 to 800 MHz

TC4-1WA+

FEATURES

- · Wideband, 3 to 800 MHz
- Good Return Loss
- Plastic Base with Leads
- · Aqueous Washable



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

- Push-Pull Amplifier
- · Impedance Matching

ELECTRICAL SPECIFICATIONS AT +25°C

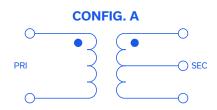
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			4		Ohms
Frequency Range		3		800	MHz
Insertion Loss ¹	3-800		3		dB
	5-400		2		dB
	10-100		1		dB

^{1.} Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

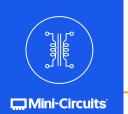
ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-20°C to +85°C
Storage Temperature	-55°C to +100°C
RF Power	0.25 W
DC Current	30 mA

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







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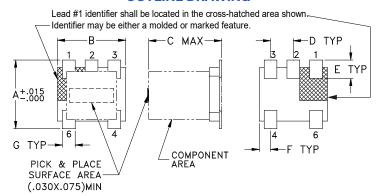
PIN CONNECTIONS

Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

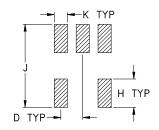
PRODUCT MARKING: N/A

DEMOBOARD MCL P/N: TB-TC4-1WA+

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout,
Tolerance to be within±.002

OUTLINE DIMENSIONS (Inch)

E	D	С	В	Α
.040	.050	.160	.150	.150
1.02	1.27	4.06	3.81	3.81
	K	- 1	н	G
	K	J	Н	G
	.030	J .190	H .065	G .028

TAPE & REEL INFORMATION: F17



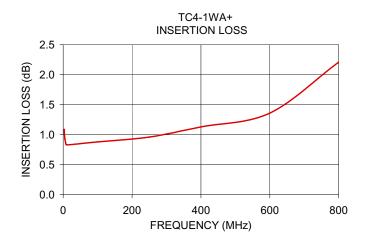
RF Transformer

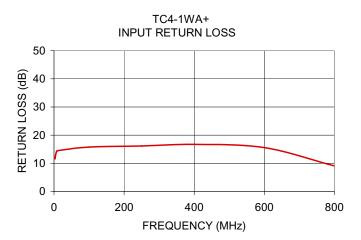
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TYPICAL PERFORMANCE DATA

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.
- 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

