SURFACE MOUNT

RF Transformer

Mini-Circuits

50Ω 200 to 1400 MHz

FEATURES

- Good return loss
- Wideband, 200 to 1400 MHz
- Plastic base with leads
- Aqueous washable



*Addition of Top Hat[®] feature Benefits

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



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

+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

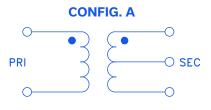
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			4		
Frequency Range		200	_	1400	MHz
	200-1400		3		
Insertion Loss*	300-1300		2		dB
	800-1100		1		

* Insertion Loss is referenced to mid-band loss, 0.7 dB typ.

MAXIMUM RATINGS

Parameter	Ratings		
Operating Temperature	-20°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. D ECO-015303 TC4-14+ MCL NY 220913

Mini-Circuits

o toto o o toto o o toto o

SURFACE MOUNT

PIN CONNECTIONS

RF Transformer

6

4

3

1

2

TC4-14+

Mini-Circuits

PRIMARY DOT

SECONDARY DOT

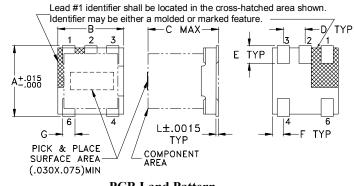
PRIMARY

SECONDARY

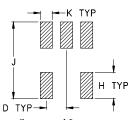
SECONDARY CT

50Ω 200 to 1400 MHz

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

OUTLINE DIMENSIONS (Inch)

А	В	С	D	Е	F	G	н	J	К	L
.150	.150	.160	.050	.040	.025	.028	.065	.190	.030	.007
3.81	3.81	4.06	1.27	1.02	0.64	0.71	1.65	4.83	0.76	0.18
Weight: 0.15 grams										

TAPE & REEL INFORMATION: F17

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com PAGE 2 OF 3

PRODUCT MARKING: NA

SURFACE MOUNT

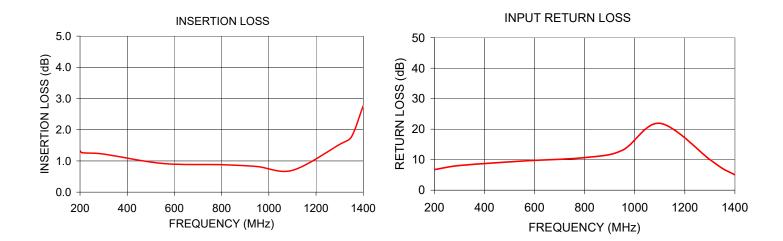


Mini-Circuits

50Ω 200 to 1400 MHz

TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
200.00	1.33	6.74
210.00	1.26	6.88
300.00	1.22	8.07
550.00	0.92	9.54
800.00	0.88	10.68
950.00	0.82	13.05
1100.00	0.70	21.93
1300.00	1.53	10.04
1350.00	1.77	7.15
1400.00	2.77	5.05



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

Mini-Circuits