

SURFACE MOUNT

RF Transformer

 $50/12.5\Omega$ 2 to 1100 MHz



*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

57102 01 122.71122 1 1

+RoHS Compliant +Suffix identifies RoHS Compliance.

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

FEATURES

- · Wideband, 2 to 1100 MHz
- Good return loss
- · Impedance matching
- Step-down autotransformer
- · Plastic base with leads
- Aqueous washable

APPLICATIONS

Cellular

ELECTRICAL SPECIFICATIONS AT 25°C

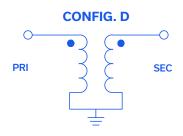
Frequency (MHz)	Min.	Тур.	Max.	Unit		
		50/12.5				
	2		1100	MHz		
_		3.0				
2-1100		2.0		dB		
5-700		1.0				
	_ 2-1100	2 - 2-1100	50/12.5 2 — 3.0 2-1100 2.0	50/12.5 2 1100 - 3.0 2-1100 2.0		

^{*} Insertion Loss is referenced to mid-band loss, 0.4 dB typ. Step down, 50 ohm primary, 5.2 pF across secondary

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.







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TC4-11+

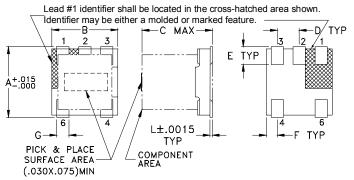
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PIN CONNECTIONS

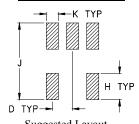
PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

PRODUCT MARKING: NA

OUTLINE DRAWING



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

OUTLINE DIMENSIONS (Inch)

Α	В	С	D	E	F	G	Н	J	K	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 gran	ns								

TAPE & REEL INFORMATION: F17



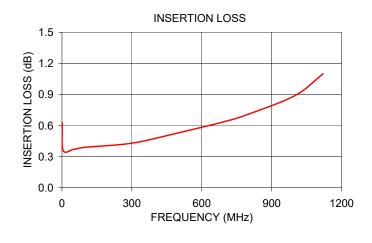
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TC4-11+

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TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
1.00	0.63	20.35
5.00	0.36	31.19
50.00	0.37	40.18
100.00	0.39	36.30
300.00	0.43	26.86
500.00	0.53	21.49
700.00	0.64	18.96
800.00	0.71	18.37
1000.00	0.89	19.97
1120.00	1.10	19.69





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

