

### SURFACE MOUNT

# **RF** Transformer

Mini-Circuits

### 12.5/50Ω 2 to 1100 MHz

### FEATURES

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



### \*Addition of Top Hat<sup>®</sup> 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**

Cellular

### **ELECTRICAL SPECIFICATIONS AT 25°C**

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (primary / secondary)			12.5/50		
Frequency Range		2		1100	MHz
	_		3.0		
Insertion Loss*	2-1100		2.0		dB
	5-700		1.0		

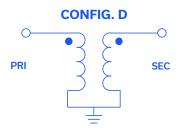
\* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

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.



REV. F ECO-017642 TC4-11+ MCL NY 230808

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### **TC4-11+**

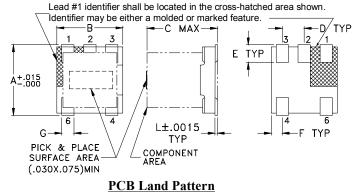
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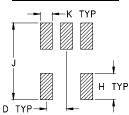
PIN CONNECTIONS				
PRIMARY DOT	6			
PRIMARY	3			
SECONDARY DOT	1			
SECONDARY	3			

12.5/50Ω

### **PRODUCT MARKING: NA**

**OUTLINE DRAWING** 





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**

**SURFACE MOUNT** 

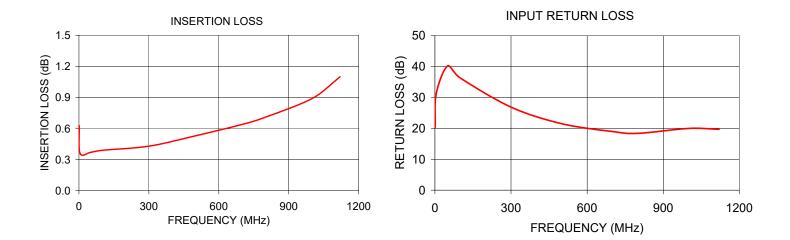


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### **TYPICAL PERFORMANCE DATA**

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

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