

SURFACE MOUNT RF Transformer

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

+RoHS Compliant The +Suffix identifies RoHS Compliance.
ee our website for methodologies and qualification

50Ω

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

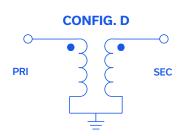
Frequency (MHz)	Min.	Тур.	Max.	Unit		
		12.5/50				
	2		1100	MHz		
_		3.0				
2-1100		2.0		dB		
5-700		1.0				
	Frequency (MHz) - 2-1100	Frequency (MHz) Min. 2 2-1100	Frequency (MHz) Min. Typ. 12.5/50 2 - 3.0 2-1100 2.0	Frequency (MHz) Min. Typ. Max. 12.5/50 12.5/50 1100 - 3.0 2.0		

^{*} 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.



REV. F ECO-017642 TC4-11+ MCL NY 230427





SURFACE MOUNT

RF Transformer

TC4-11+

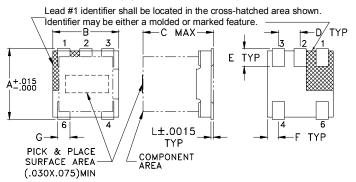
 50Ω 2 to 1100 MHz

PIN CONNECTIONS

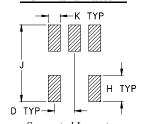
PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

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 grams										

TAPE & REEL INFORMATION: F17



RF Transformer

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

