

SURFACE MOUNT

RF Transformer

5 to 300 MHz

Mini-Circuits

FEATURES

- Excellent amplitude unbalance (0.3 dB typ) and phase unbalance (5 deg. typ) in 1 dB bandwidth
- Plastic base with leads

50Ω

- Good return loss
- 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
- Balanced antennas

ELECTRICAL SPECIFICATIONS AT 25°C

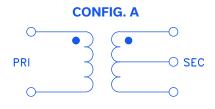
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			3		
Frequency Range		5		300	MHz
	-		3		
Insertion Loss*	_		2		dB
	5-300		1		

* Insertion Loss is referenced to mid-band loss, 0.4 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. F ECO-015303 TC3-1T+ MCL NY 220913

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⁻ Transformer

TC3-1T+

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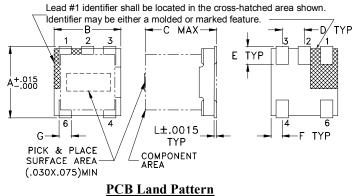
50Ω 5 to 300 MHz

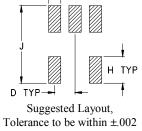
PIN CONNECTIONS

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

PRODUCT MARKING: NA

OUTLINE DRAWING





←K TYP

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 gran	ns								

TAPE & REEL INFORMATION: F17

SURFACE MOUNT

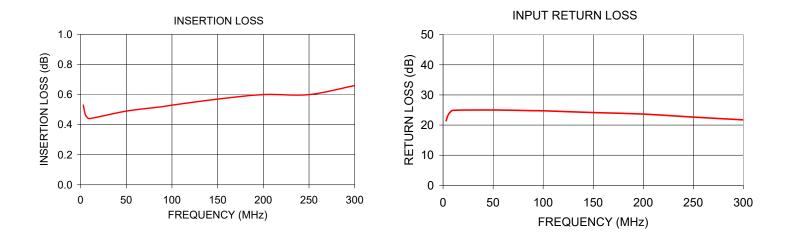


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TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
3.00	0.53	21.45	
7.00	0.45	24.23	
10.00	0.44	24.89	
50.00	0.49	24.99	
90.00	0.52	24.79	
100.00	0.53	24.74	
150.00	0.57	24.15	
200.00	0.60	23.65	
250.00	0.60	22.64	
300.00	0.66	21.73	



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.

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