

SURFACE MOUNT

RF Transformer

50Ω

5 to 300 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.
e our website for methodologies and qualifications

FEATURES

- Excellent amplitude unbalance (0.3 dB typ) and phase unbalance (5 deg. typ) in 1 dB bandwidth
- · Plastic base with leads
- Good return loss
- · Aqueous washable

APPLICATIONS

- Impedance matching
- Balanced antennas

ELECTRICAL SPECIFICATIONS AT 25°C

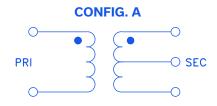
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			3		
Frequency Range		5		300	MHz
	_		3		
Insertion Loss*	_		2		dB
	5-300		1		

 $^{^{\}star}$ 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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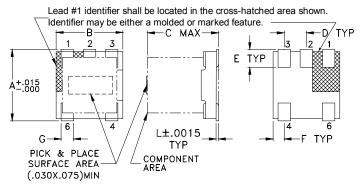
5 to 300 MHz

PIN CONNECTIONS

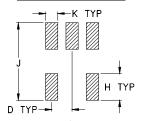
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2

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
١	Majaht: C	15 gran	ne								

Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



RF Transformer

TC3-1T+

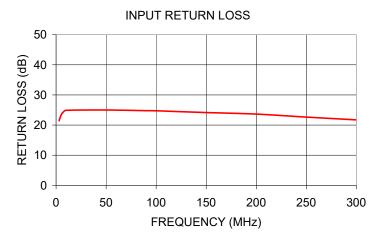
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TYPICAL PERFORMANCE DATA

INSERTION LOSS (dB)	INPUT R. LOSS (dB)						
0.53	21.45						
0.45	24.23						
0.44	24.89						
0.49	24.99						
0.52	24.79						
0.53	24.74						
0.57	24.15						
0.60	23.65						
0.60	22.64						
0.66	21.73						
	(dB) 0.53 0.45 0.44 0.49 0.52 0.53 0.57 0.60 0.60						





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

