Surface Mount **RF Transformer** 50Ω 20 to 300 MHz

Features

- suitable for tin/lead and RoHS solder systems
- plastic base with leads
- aqueous washable

Applications

catv





Generic photo used for illustration purposes only CASE STYLE: AT224-3

+ROHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary/Primary)			16		Ohm
Frequency Range		20		300	MHz
	20-300		3.0		
Insertion Loss*	30-200		2.0		dB
	50-150		1.0		
Phase Unbalance	50-150		4		Dec
Phase Unbalance	30-200		5		Deg.
	50-150		0.3		-ID
Amplitude Unbalance	30-200		0.5		dB

* Insertion Loss is referenced to mid-band loss, 1 dB typ.

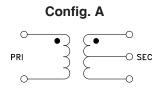
Maximum Ratings

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.

Pin Connections

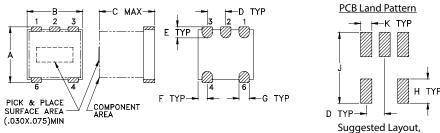
Function	Pin Number
PRIMARY DOT	3
PRIMARY	1
SECONDARY DOT	4
SECONDARY	6
NOT USED	2



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TC16-1TG2+

Outline Drawing

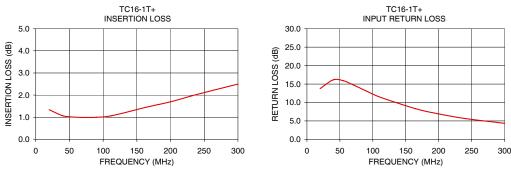


Tolerance to be within $\pm .002$

Outline Dimensions (inch)

F	E	D	С	В	Α
.025	.030	.050	.150	.150	.150
0.64	0.76	1.27	3.81	3.81	3.81
wt		к	J	н	G
grams		.030	.190	.065	.028
0.10		0.76	4.83	1.65	0.71

20.00 40.00 55.00 70.00 90.00	1.34 1.07 1.01 0.99	13.77 16.14 15.90 14.80	
40.00 55.00 70.00 90.00	1.07 1.01	16.14 15.90	
70.00 90.00			
90.00	0.99	14.90	
		14.80	
	1.00	13.12	
112.50	1.07	11.35	
165.00	1.46	8.32	
200.00	1.70	6.90	
240.60	2.04	5.63	
300.00	2.50	4.34	



Additional 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/MCLStore/terms.jsp

