RF Transformer

TC16-1T+

CASE STYLE: AT224-1

*Addition of Top hat™ feature Benefits

- Allows faster pick-and-place
- Enables visual identification marking

+RoHS Compliant

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

50Q 20 to 300 MHz

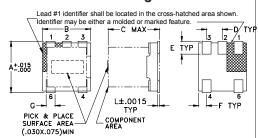
Maximum Ratings

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	f these limits are exceeded

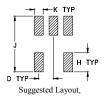
Pin Connections

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

Outline Drawing AT224-1



PCB Land Pattern

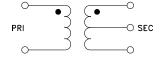


Tolerance to be within ±.002

Α	В	С	D	E	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
G	н		K		wt
G .028	H .065	J .190	K .030	L .007	wt grams

Outline Dimensions (inch)

Config. A



Features

• plastic base with leads · aqueous washable

Applications

catv

Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSI 3 dB MHz	ERTION LO	DSS* 1 dB MHz	UNBAI (De	ASE LANCE eg.) /p. 2 dB bandwidth	UNBAI (d	ITUDE LANCE B) /p. 2 dB bandwidth
16	20-300	20-300	30-200	50-150	4	5	0.3	0.5

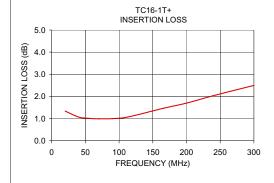
^{*} Insertion Loss is referenced to mid-band loss, 1 dB typ.

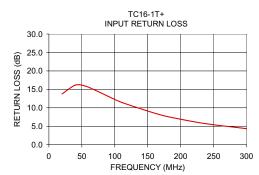
• good return loss, 15 dB typ. in 1 dB bandwidth

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

Typical Performance Data

FREQUE (MHz		N INPUT R. LOSS (dB)	;
20.00	1.34	13.77	
40.00	1.07	16.14	
55.00	1.01	15.90	
70.00	0.99	14.80	
90.00	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	





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

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