RF Transformer

TC16-1TG2+

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 o	of these limits are exceeded

Pin Connections

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

Features

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

CASE STYLE: AT224-3

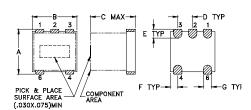
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

1000, 2000

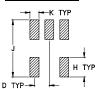
Applications

catv

Outline Drawing AT224-3



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

Α	В	С	D	Ε	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	Н	J	K		wt
000	~~=				
.028	.065	.190	.030		grams

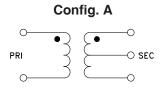
Transformer Electrical Specifications

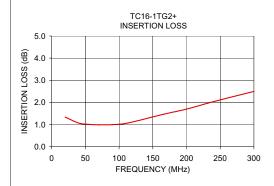
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*				LANCE eg.)	AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
16	20-300	20-300	30-200	50-150	4	5	0.3	0.5

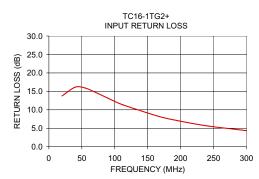
^{*} Insertion Loss is referenced to mid-band loss, 1 dB typ.

Typical Performance Data

	QUENCY IN MHz)	SERTION LOSS (dB)	INPUT R. LOSS (dB)
20	0.00	1.34	13.77
40	0.00	1.07	16.14
55	5.00	1.01	15.90
70	0.00	0.99	14.80
90	0.00	1.00	13.12
112	2.50	1.07	11.35
165	5.00	1.46	8.32
200	0.00	1.70	6.90
240	0.60	2.04	5.63
300	0.00	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