Surface Mount **RF Transformer**

50Q

20 to 300 MHz

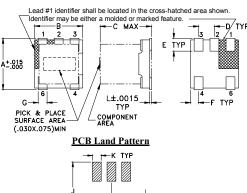
Maximum Ratings

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	f these limits are exceeded.

Pin Connections

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

Outline Drawing AT224-1



н түр D TYP _ Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	C	B	A
.025	.040	.050	.160	. 150	. 150
0.64	1.02	1.27	4.06	3.81	3.81
wt	.007	К	J	H	G
grams		.030	. 190	. 065	. 028
0.15		0.76	4.83	1.65	0.71

Config. A PRI -O SEC $\overline{}$ \cap

Features

- good return loss, 15 dB typ. in 1 dB bandwidth
- plastic base with leads
- · aqueous washable

Applications

catv





CASE STYLE: AT224-1

*Addition of Top hat™ feature Benefits Allows faster pick-and-place Enables visual identification marking

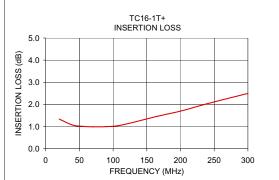
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

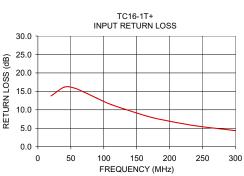
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSI	ERTION LC)SS*	UNBAI (De	ASE LANCE eg.) vp.	UNBAI (d	ITUDE LANCE B) /p.
		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 ref	erenced to mid-band loss,	1 dB typ.						



Туріса	Performance Da		
FREQUENCY (MHz)	INSERTION LOSS (dB)	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	





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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

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