# Surface Mount top hat **RF Transformer** 50Ω 20 to 300 MHz

#### Features

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

#### Applications

catv

## TC16-1TX+



Generic photo used for illustration purposes only

CASE STYLE: AT1521

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



#### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			16		Ohm
Frequency Range		20		300	MHz
Insertion Loss*	20 - 300		3		dB
	30 - 200		2		
	50 - 150		1		
Amplitude Unbalance	50 - 150		0.3		dB
	30 - 200		0.5		
Phase Unbalance	50 - 150		4		Degree
	30 - 200		5		

\* 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.

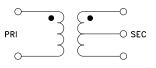
#### **Product Marking**



#### **Pin Connections**

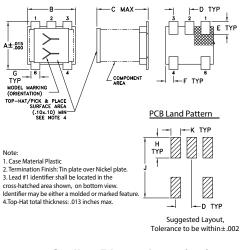
Function	Pin Number		
PRIMARY DOT	3		
PRIMARY	1		
SECONDARY DOT	4		
SECONDARY	6		
SECONDARY CT	2		





## TC16-1TX+

#### **Outline Drawing**

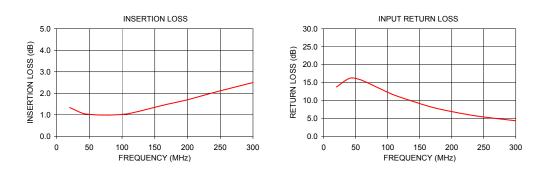


#### Outline Dimensions (inch )

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

#### Typical Performance Data

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	



#### **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



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