

TC16-1TX+

50Ω 20 to 300 MHz

FEATURES

- · Good return loss, 15 dB typ. in 1 dB bandwidth
- · Plastic base with leads
- · Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT1521

+RoHS Compliant

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

APPLICATIONS

Catv

ELECTRICAL SPECIFICATIONS AT +25°C

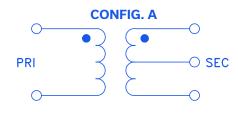
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit	
Impedance Ratio (secondary/primary)			16		Ohm	
Frequency Range		20		300	MHz	
	20 - 300		3		dB	
Insertion Loss*	30 - 200		2			
	50 - 150		1			
A Ph da Habada	50 - 150		0.3		-ID	
Amplitude Unbalance	30 - 200		0.5		dB	
Discouli de de constante de la	50 - 150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

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

MAXIMUM RATINGS

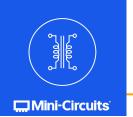
Parameter	Ratings		
Operating Temperature	-20°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25W		
DC Current	30mA		

Permanent damage may occur if any of these limits are exceeded.



REV. B ECO-021763 TC16-1TX+ MCL NY 240510





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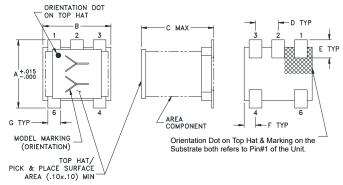
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PIN CONNECTIONS

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

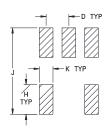
PRODUCT MARKING: CY

OUTLINE DRAWING



Top-hat total thickness: .013 inches MAX.

PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

OUTLINE DIMENSIONS (Inch)

Α	В	С	D	Ε	F	G	Н	J	K
.150	.150	.160	.050	.040	.025	.028	.065	.190	.030
3.81	3.81	4.06	1.27	1.02	0.64	0.71	1.65	4.83	0.76

Weight: 0.15 grams

TAPE & REEL INFORMATION: F17



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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





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/terms/viewterm.html