

TC8-1X+

 50Ω 2 to 500 MHz

FEATURES

- · Wideband, 2 to 500 MHz
- Good return loss
- · Plastic base with leads
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: AT1521

+RoHS Compliant
The +Suffix identifies RoHS Compliance.
ur website for methodologies and qualifications

APPLICATIONS

- · Push-pull amplifier
- · Impedance matching

ELECTRICAL SPECIFICATIONS AT 25°C

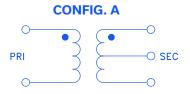
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			8		Ohm
Frequency Range		2		500	MHz
	2-500		3.0		
Insertion Loss*	5-400		2.0		dB
	10-100		1.0		

^{*} Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

ABSOLUTE 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-022715 TC8-1X+ MCL NY 240808





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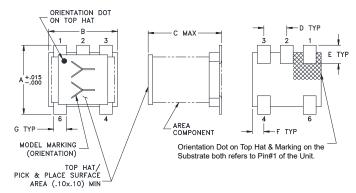
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PIN CONNECTIONS

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

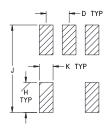
PRODUCT MARKING: FQ

OUTLINE DRAWING



Top-hat total thickness: .013 inches MAX.

PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

OUTLINE DIMENSIONS $\binom{Inch}{mm}$

Ε G Κ Α Н .150 .160 .050 .040 .025 .030 .150 .028 .065 .190 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

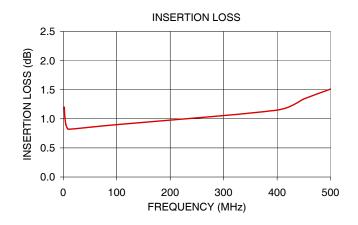


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TYPICAL PERFORMANCE DATA

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
2.00	1.20	10.65	
3.00	1.03	12.20	
5.00	0.90	14.01	
7.50	0.84	15.09	
10.00	0.82	15.64	
55.00	0.86	15.88	
100.00	0.90	15.29	
400.00	1.15	9.68	
450.00	1.34	9.15	
500.00	1.51	8.67	





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