

TC1-1TX+

50Q 0.4 to 500 MHz

Maximum Ratings

Operating Temperature	-40°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.				

Pin Connections

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

Features

- usable over 0.4-500 MHz
- excellent amplitude unbalance, 0.1 dB typ.
- and phase unbalance, 2 deg typ. in 1 dB bandwidth

FREQUENCY

(MHz)

0.4-500

Insertion Loss is referenced to mid-band loss, 0.35 dB typ

- good return loss
- · plastic base with leads
- aqueous washable

Applications

RATIO

- VHF/UHF receivers/transmitters
- push-pull amplifiers





AMPLITUDE

UNBALANCE (dB)

> 2 dB bandwidth

> > 0.6

1 dB

0.1

CASE STYLE: AT1521

+RoHS Compliant

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



PHASE

UNBALANCE

(Deg.) Тур.

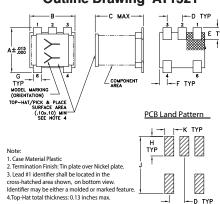
2 dB

1 dB

bandwidth

2

Outline Drawing AT1521



Suggested Layout, Tolerance to be within ±.002

Typical Performance Data

Electrical Specifications

INSERTION LOSS*

2 dB

MHz

0.5-300

1 dB

MHz

1-100

3 dB

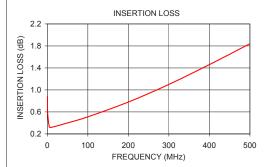
0.4-500

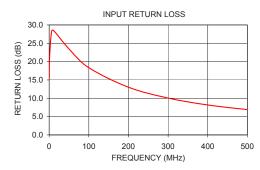
FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCI (Deg.)
0.30	0.88	15.46	0.06	0.03
1.00	0.57	21.01	0.04	0.05
5.00	0.33	27.35	0.02	0.01
10.00	0.32	28.55	0.02	0.15
50.00	0.40	23.46	0.02	0.63
100.00	0.51	18.34	0.06	1.24
200.00	0.78	13.01	0.21	2.57
300.00	1.10	10.06	0.47	3.99
400.00	1.46	8.16	0.82	5.66
500.00	1.84	6.90	1.26	7.50



Α	В	С	D	Е	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64
G	Н	J	K		wt
G .028	H .065	J .190	.030		wt grams

Demo Board MCL P/N: TB-145





Config. A



- 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