Surface Mount **T RF Transformer**

50Q

0.5 to 2200 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 of	these limits are exceeded.

Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	4
NOT USED	2,3

Outline Drawing AT1521 TYP SEE NOTE PCB Land Pattern H-K TYP H TYP 0 Note 1. Case Material Plastic

2. Termination Finish: Tin plate over Nickel plate. 3. Lead #1 identifier shall be located in the cross-hatched area shown, on bottom view. Identifier may be either a molded or marked feature. 4.Top-Hat total thickness: 0.13 inches max.

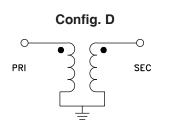
-D TYP

Suggested Layout, Tolerance to be within±.002

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

Demo Board MCL P/N: TB-41



Features

- wideband, 0.5-2200 MHz,
- excellent return loss
- terminations, solder plated with nickel barrier
- for solderability & excellent each resistance
- autotransformer
- plastic base with leads
- · aqueous washable

Applications

• impedance matching





CASE STYLE: AT1521

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

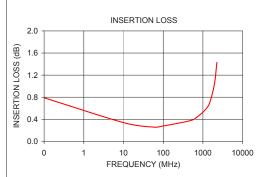
	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

Transformer Electrical Specifications				
Ω RATIO (Secondary/Primary)	FREQUENCY	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1.5	0.5-2200	0.5-2200	1-2000	2-1100

Insertion Loss is referenced to mid-band loss, .3 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
0.10	0.79	9.30	
10.00	0.34	32.27	
55.00	0.26	34.33	
100.00	0.28	31.27	
500.00	0.38	21.15	
800.00	0.47	17.71	
1200.00	0.59	15.28	
1500.00	0.71	16.70	
1950.00	1.04	25.47	
2250.00	1.43	11.82	





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



REV. A M151107 TC1.5-1X+ IG/TD/CP/AM 151221 Page 1 of 1