Surface Mount \mathbf{I} **RF Transformer** 50 Ω 1.5 to 500 MHz

Features

- · good return loss
- usable over 0.4-500 MHz
- excellent amplitude unbalance, 0.1 dB typ.
- and phase unbalance, 2 deg typ. in 1 dB bandwidth • plastic base with leads
- aqueous washable

Applications

- balanced to unbalanced transformation
- push-pull amplifiers





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

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

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		Ohm
Frequency Range		1.5		500	MHz
	1.5 - 500		3.0		
Insertion Loss*	2.5 - 400		2.0		dB
	5 - 350		1.0		

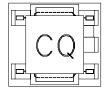
* Insertion Loss is referenced to mid-band loss, 0.6 dB typ.

Maximum Ratings

Parameter	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.

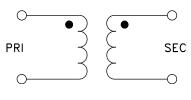
Product Marking



Pin Connections

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

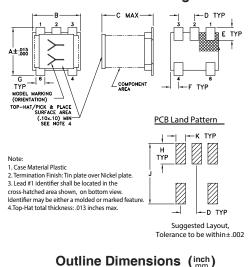
Config. C



Demo Board MCL P/N: TB-145

TC1-1X+

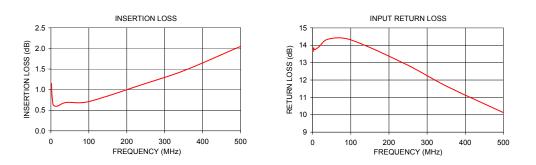
Outline Drawing



<u> </u>	N 11111					
	F	E	D	С	В	А
	.025	.040	.050	.160	.150	.150
	0.64	1.02	1.27	4.06	3.81	3.81
	wt		к	J	н	G
	grams		.030	.190	.065	.028
	0.15		0.76	4.83	1.65	0.71

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
1.51	1.15	13.64	
2.49	0.91	13.85	
4.35	0.72	13.75	
6.87	0.62	13.76	
16.75	0.60	13.91	
40.86	0.69	14.35	
99.67	0.71	14.31	
243.10	1.13	12.92	
353.08	1.47	11.62	
502.30	2.06	10.10	



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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