RF Transformer

ADTL1-12+

CASE STYLE: CD542

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site

Available Tape and Reel at no extra cost

500,1000

Devices/Reel 20, 50, 100, 200, 500

for RoHS Compliance methodologies and qualifications

Reel Size

20 to 1200 MHz

Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	2W
DC Current	30mA
Permanent damage may occur if any of	these limits are exceeded

Pin Connections

PRIMARY DOT	1_
PRIMARY	3
SECONDARY DOT	6
SECONDARY	4
NOT USED	2,5

Features

- wideband, 20 to 1200 MHz
- balanced transmission line
- excellent amplitude unbalance, 0.3 dB typ. and phase unbalance, 3 deg. typ. in 1 dB bandwidth
- RF power, 2W
- aqueous washable
- protected under US patent 6,133,525

Applications

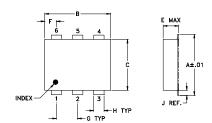
- impedance matching
- balanced amplifier
- baluns
- cellular
- VHF

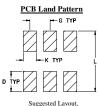
Transformer Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		PHASE UNBALANCE (Deg.)		LANCE eg.)	AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	20-1200	-	20-1200	50-1000	3	4	0.3	0.5

^{*} Insertion Loss is referenced to mid-band loss, 0.6 dB tvp.

Outline Drawing





Tolerance to be within +.002

Outline Dimensions (inch)

G	F	E	D	С	В	Α
.100	.055	.112	.100	.220	.310	.272
2.54	1.40	2.84	2.54	5.59	7.87	6.91
wt			L	K	J	Н
grams			.300	.065	.026	.030
0.20			7.62	1.65	0.66	0.76

Demo Board MCL P/N: TB-94

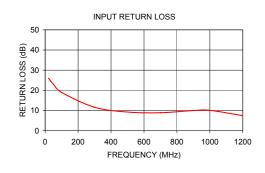
Config. G



Typical Performance Data

FREQUENCY (MHz)			AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)	
20.00	0.28	26.05	0.32	3.48	
30.00	0.28	25.08	0.26	2.31	
50.00	0.28	23.04	0.28	1.42	
100.00	0.37	18.99	0.23	0.30	
300.00	0.74	11.63	0.17	0.99	
500.00	0.98	9.26	0.04	1.35	
700.00	0.92	8.93	0.14	0.79	
900.00	0.76	10.00	0.48	0.35	
1000.00	0.74	10.10	0.65	0.92	
1200.00	1.32	7.49	0.99	2.65	





- 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