RF Transformer

ADTL1-15-75+

Generic photo used for illustration purposes only

CASE STYLE: CD542

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site

Available Tape and Reel at no extra cost

Devices/Reel 10, 20, 50, 100, 200 500,1000

for RoHS Compliance methodologies and qualifications

750 10 to 1500 MHz

Maximum Ratings

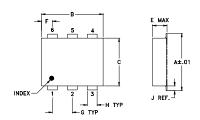
Operating Temperature	е	-20°C to 85°C
Storage Temperature		-55°C to 100°C
RF Power		0.5W
DC Current		30mA

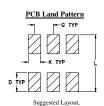
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

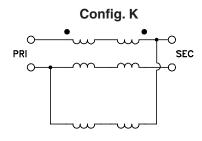
Outline Drawing





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



Features

- wideband, 10 to 1500 MHz
- balanced transmission line
- excellent amplitude & phase unbalance
- aqueous washable
- protected by US Patent 6,133,525

Applications

- · impedance matching
- balanced amplifier
- cellular
- GPS

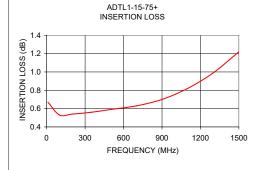
Transformer Electrical Specifications

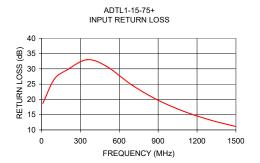
$_{ extsf{RATIO}}^{\Omega}$	FREQUENCY (MHz)	*INSERTION LOSS over frequency range (MHz)			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB	2 dB	1 dB	over 1 dB Freq.	over 2 dB Freq.	over 1 dB Freq.	over 2 dB Freq.
1	10-1500	_	10-1500	30-1000	3	3	0.15	0.3

^{*} Insertion Loss is referenced to mid-band loss, 0.5 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
10.00	0.67	18.66	0.10	0.28
100.00	0.53	26.67	0.09	0.36
200.00	0.54	29.71	0.07	0.89
350.00	0.56	32.98	0.04	1.55
500.00	0.59	30.88	0.00	1.99
700.00	0.63	24.64	0.09	2.37
900.00	0.70	19.73	0.20	2.28
1100.00	0.82	16.05	0.34	1.72
1300.00	0.99	13.27	0.45	0.90
1500.00	1.22	11.11	0.58	0.33





- 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