

Surface Mount RF Transformer

ADTL1-12+ ADTL1-12

50Ω 20 to 1200 MHz

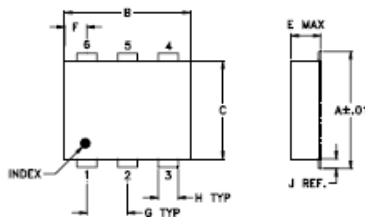
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	2W
DC Current	30mA

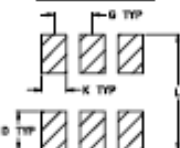
Pin Connections

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

Outline Drawing



PCB Land Pattern

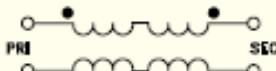


Suggested Layout,
Tolerance to be within ±0.02

Outline Dimensions (Inch/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54
H	J	K	L	wt		
.030	.026	.065	.300	grams		
0.76	0.66	1.65	7.62	0.20		

Config. G



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.) Typ.		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 typ.



CASE STYLE: CD542
PRICE: \$2.95 ea. QTY (10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	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

