

# Surface Mount RF Transformer

## ADTL1-4-75+ ADTL1-4-75

75Ω 0.5 to 1000 MHz



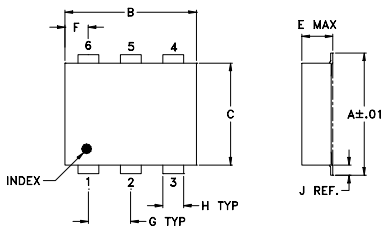
### Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	1W
DC Current	30mA

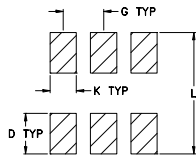
### Pin Connections

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

### Features

- wideband, 0.5 to 1000 MHz
- balanced transmission line
- excellent amplitude unbalance, 0.3 dB typ. and phase unbalance, 1 deg. typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

### Applications

- impedance matching
- balanced amplifier
- baluns
- cellular

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.

### Transformer Electrical Specifications

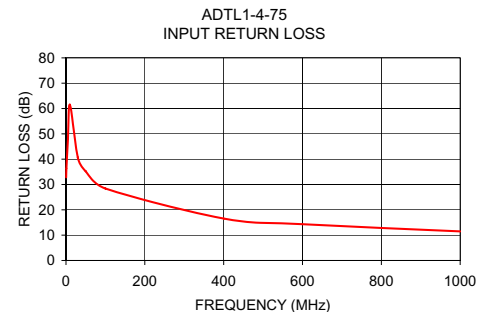
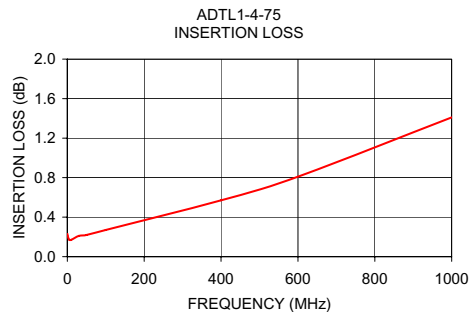
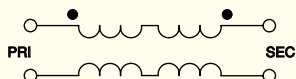
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	0.5-1000	0.5-1000	1-600	5-400	1	2	0.3	0.3

\* Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.50	0.23	32.81	0.57	4.57
1.00	0.21	36.36	0.48	2.95
5.00	0.17	47.97	0.29	0.91
10.00	0.17	61.49	0.27	0.37
30.00	0.21	40.69	0.27	0.13
50.00	0.22	35.25	0.28	0.27
100.00	0.27	28.41	0.27	0.57
400.00	0.57	16.57	0.02	1.33
600.00	0.81	14.32	0.24	0.63
1000.00	1.41	11.48	0.35	4.51

### Config. G



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RF/IF MICROWAVE COMPONENTS

REV. C  
M102713  
ADTL1-4-75  
DJ/TD/CP/AM  
070714