

# Surface Mount RF Transformer

## ADT4-6+ ADT4-6

50Ω 0.07 to 250 MHz

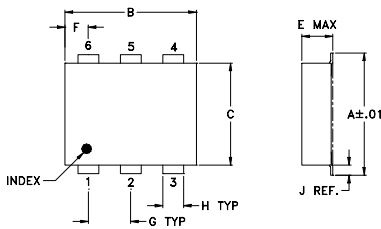
### Maximum Ratings

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

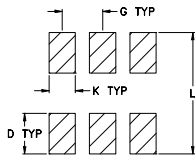
### Pin Connections

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

### Outline Drawing



### PCB Land Pattern



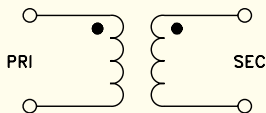
Suggested Layout,  
Tolerance to be within ±.002

### Outline Dimensions (inch)

A	B	C	D	E	F	G
.272	.310	.220	.100	.206	.055	.100
6.91	7.87	5.59	2.54	5.23	1.40	2.54
H	J	K	L	wt		
.030	.026	.065	.300	grams		
0.76	0.66	1.65	7.62	0.40		

Demo Board MCL P/N: TB-42

### Config. C



### Features

- excellent return loss, 21 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

### Applications

- impedance matching



CASE STYLE: CD637  
PRICE: \$4.95 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
4	0.07-250	0.07-250	0.1-220	0.15-150	-	-	0.2	0.5

\* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

### Typical Performance Data

FREQUENCY (MHz)	INERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.07	0.56	14.57	0.00	0.03
0.18	0.31	22.07	0.00	0.07
30.40	0.22	38.49	0.04	5.15
120.10	0.34	24.27	0.05	18.17
150.00	0.38	21.27	0.05	21.37
180.00	0.43	18.80	0.25	24.37
200.00	0.50	17.30	0.43	26.06
220.00	0.58	15.94	0.69	27.57
230.00	0.64	15.29	0.84	28.33
254.00	0.80	13.85	1.27	30.05

ADT4-6  
INSERTION LOSS

