

Surface Mount RF Transformer

ADT16-6+ ADT16-6

50Ω 0.25 to 105 MHz

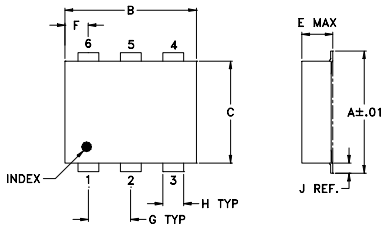
Maximum Ratings

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

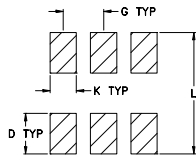
Pin Connections

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

Outline Drawing



PCB Land Pattern



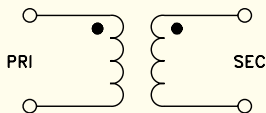
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.162	.055	.100
6.91	7.87	5.59	2.54	4.11	1.40	2.54
H	J	K	L	wt		
.030	.026	.065	.300	grams		
0.76	0.66	1.65	7.62	0.25		

Demo Board MCL P/N: TB-42

Config. C



Features

- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 3 deg. typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- balanced amplifier



CASE STYLE: CD636
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
16	0.25-105	0.25-105	0.45-75	1-40	2	5	0.1	0.2

* Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.17	1.13	12.27	0.01	0.03
0.26	1.01	14.51	0.01	0.03
0.50	0.92	16.52	0.01	0.06
1.60	0.64	19.73	0.01	0.18
20.00	0.50	18.79	0.02	2.32
50.00	0.77	12.36	0.12	4.94
55.00	0.83	11.64	0.13	5.27
65.00	0.96	10.38	0.15	5.75
75.00	1.11	9.32	0.15	6.13
106.00	1.67	6.87	0.01	6.64

ADT16-6
INSERTION LOSS

