

Surface Mount RF Transformer

50Ω 0.03 to 125 MHz

ADT1-6T+
ADT1-6T



CASE STYLE: CD637
PRICE: \$3.45 ea. QTY (10-49)

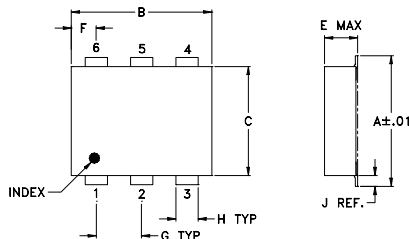
Maximum Ratings

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

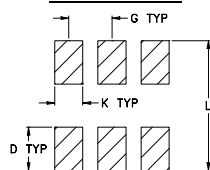
Pin Connections

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

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	.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

Features

- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 1 deg. typ. in 1dB bandwidth
- excellent return loss, 18 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- balanced amplifier

Transformer Electrical Specifications

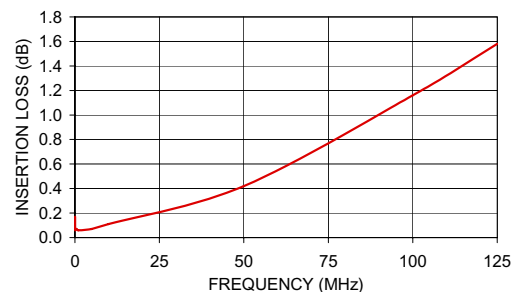
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	0.03-125	0.03-125	0.04-75	0.05-50	1	1	0.1	0.2

* Insertion Loss is referenced to mid-band loss, 0.1 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.03	0.17	16.36	0.01	0.06
0.05	0.08	20.69	0.00	0.04
0.10	0.06	26.79	0.00	0.01
0.50	0.07	38.06	0.00	0.02
1.00	0.06	39.09	0.00	0.03
5.00	0.07	32.08	0.00	0.10
10.00	0.11	27.04	0.01	0.19
50.00	0.42	14.63	0.13	0.89
100.00	1.16	9.25	0.52	1.93
125.00	1.58	7.66	0.83	2.58

ADT1-6T
INSERTION LOSS



Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

INTERNET <http://www.minicircuits.com>



REV. B
M98898
ADT1-6T
ED-7823/1
WZ/TD/CP
060613