

Surface Mount RF Transformer

50Ω 2 to 775 MHz

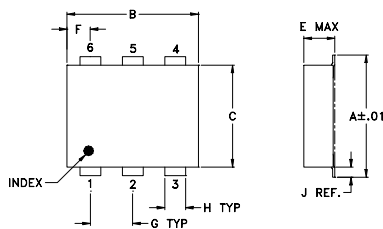
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

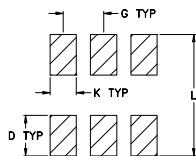
Pin Connections

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

Outline Drawing



PCB Land Pattern



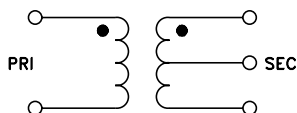
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch)

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	

Demo Board MCL P/N: TB-42

Config. A



Features

- excellent return loss, 20 dB typ. in dB bandwidth
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 1 deg. typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- baluns

ADT4-1WT+
ADT4-1WT



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

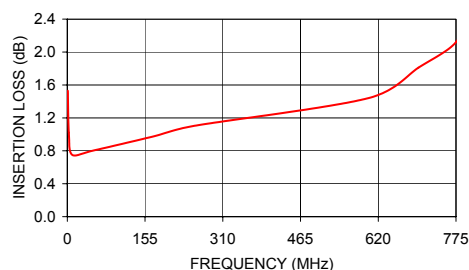
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
4	2-775	2-775	3-600	6-250	1	3	0.1	0.3

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

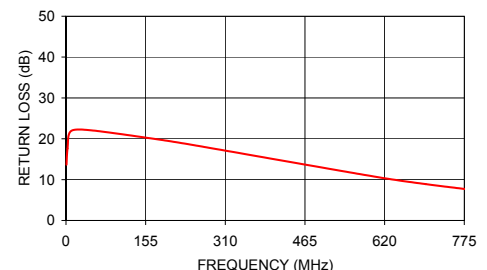
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1.00	1.53	13.65	0.02	0.03
3.00	1.02	17.61	0.00	0.03
10.00	0.75	21.91	0.00	0.00
50.00	0.80	22.05	0.01	0.26
175.00	0.98	19.93	0.03	0.89
250.00	1.10	18.41	0.03	1.48
600.00	1.44	10.74	0.18	6.98
700.00	1.81	8.91	0.23	10.48
775.00	2.12	7.73	0.27	14.36
800.00	2.51	7.38	0.28	14.98

ADT4-1WT
INSERTION LOSS



ADT4-1WT
INPUT RETURN LOSS



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