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# Surface Mount RF Transformer

75Ω 0.4 to 800 MHz

## ADT1-1WT



CASE STYLE: CD542

Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	500, 1000

### Maximum Ratings

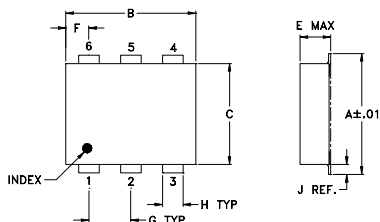
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.5W
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded.

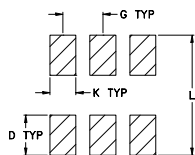
### Pin Connections

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

### Outline Drawing



### PCB Land Pattern



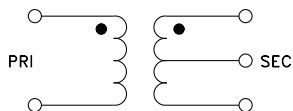
Suggested Layout,  
Tolerance to be within ±.002

### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	
.272	.310	.220	.100	.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-430

### Config. A



### Features

- 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
- balanced amplifier

### Transformer Electrical Specifications

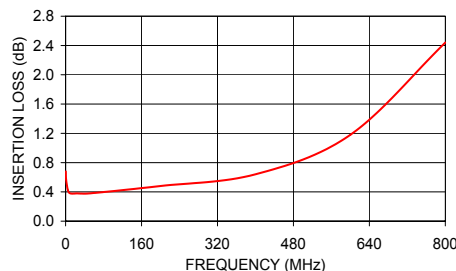
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	0.4-800	0.4-800	0.5-700	1-400	1	4	0.1	0.5

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

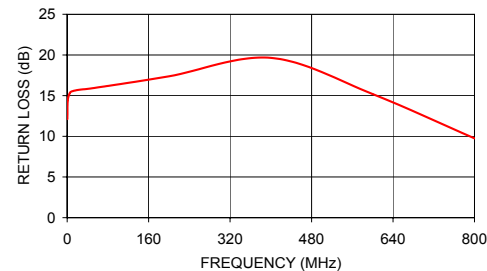
### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.30	0.68	12.11	0.15	0.25
1.00	0.57	14.38	0.07	0.36
5.00	0.42	15.29	0.03	0.41
10.00	0.38	15.54	0.00	0.40
25.00	0.38	15.73	0.02	0.37
50.00	0.38	15.91	0.03	0.49
200.00	0.48	17.38	0.03	1.48
400.00	0.64	19.64	0.26	2.02
600.00	1.18	15.20	0.79	1.45
800.00	2.44	9.75	1.72	0.40

ADT1-1WT  
INSERTION LOSS



ADT1-1WT  
INPUT RETURN LOSS



### Notes

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