

RF Transformer

50Ω 0.4 to 450 MHz
**ADT2-1T+
ADT2-1T**


CASE STYLE: CD542

PRICE: \$3.65 ea. QTY (10-49)

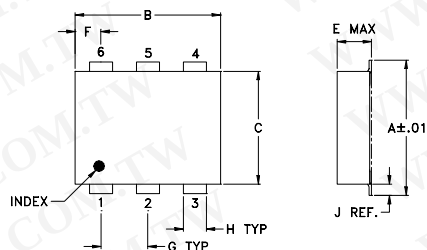
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any of these limits are exceeded.	

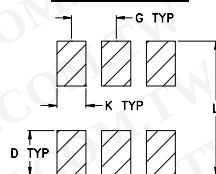
Pin Connections

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

Outline Drawing



PCB Land Pattern



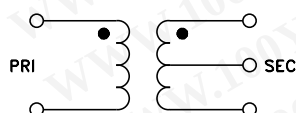
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.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 return loss, 18 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.2 dB typ. and phase unbalance, 1 deg. typ. in 1dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- balanced amplifier

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
2	0.4-450	0.4-450	0.6-400	1-200	1	1	0.2	0.3

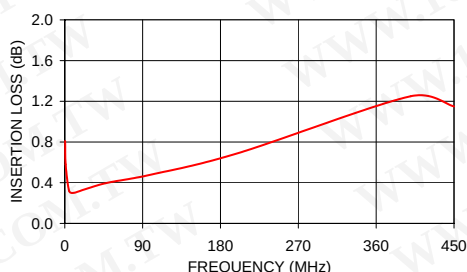
* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

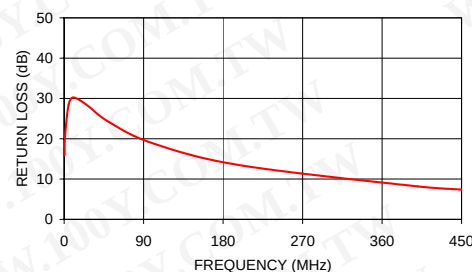
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.40	0.81	15.88	0.15	0.26
1.00	0.58	20.61	0.20	0.31
5.00	0.32	28.42	0.23	0.34
10.00	0.30	30.23	0.25	0.23
25.00	0.34	28.47	0.26	0.17
50.00	0.40	24.24	0.26	0.13
100.00	0.48	18.91	0.22	0.22
200.00	0.69	13.40	0.08	0.14
400.00	1.25	8.18	0.63	1.99
450.00	1.15	7.38	0.92	2.76

ADT2-1T
INSERTION LOSS



ADT2-1T
INPUT RETURN LOSS



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IF/RF MICROWAVE COMPONENTS

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