RF Transformer

ADT2-1T+ ADT2-1T

50O 0.4 to 450 MHz

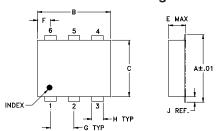
Maximum Ratings

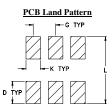
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any o	of these limits are exceeded

Pin Connections

3
1
6
4
5
2

Outline Drawing



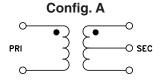


Suggested Layout,

Outline Dimensions (inch)

Α	В	С	D	Е	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54
Н	J	K	L			wt
H .030	J .026	K .065	.300			wt grams

Demo Board MCL P/N: TB-430



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

CASE STYLE: CD542 PRICE: \$3.65 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.

Applications

- impedance matching
- balanced amplifier

Transformer Electrical Specifications

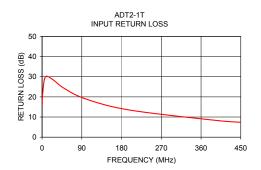
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.		
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2	0.4-450	0.4-450	0.6-400	1-200	1	1	0.2	0.3

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

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





For detailed performance specs

