RF Transformer

ADT2-1T

Generic photo used for illustration purposes only

CASE STYLE: CD542

50O 0.4 to 450 MHz

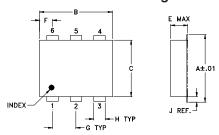
Maximum Ratings

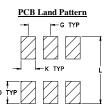
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any o	of these limits are exceeded

Pin Connections

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

Outline Drawing



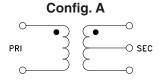


Suggested Layout,

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
.030	.026	.065	.300			grams
0.76	0.66	1.65	7.62			0.20

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

Applications

- impedance matching
- balanced amplifier

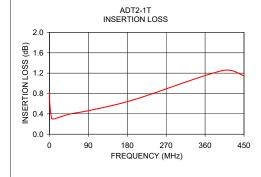
Transformer Electrical Specifications

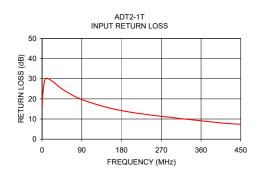
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		INSERTION LOSS* PHASE UNBALANCE (Deg.) Typ.		LANCE eg.)	AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
2	0.4-450	0.4-450	0.6-400	1-200	1	1	0.2	0.3

^{*} 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	80.0	0.14
400.00	1.25	8.18	0.63	1.99
450.00	1.15	7.38	0.92	2.76





- Notes
 A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicrcuits.com/MCLStore/terms.jsp