

RF Transformer

50Ω 0.06 to 300 MHz

Maximum Ratings

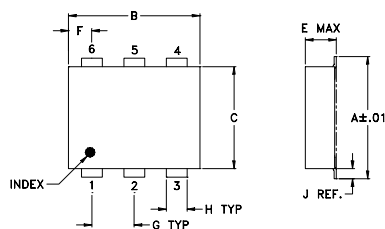
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

Permanent damage may occur if any of these limits are exceeded

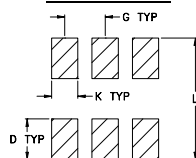
Pin Connections

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

Outline Drawing



PCB Land Pattern



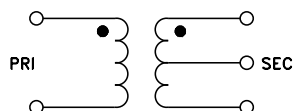
Suggested Layout,
Tolerance to be within $\pm .002$

Outline Dimensions (inch)

A	B	C	D	E	F	G
.272	.310	.220	.100	.206	.055	.100
6.91	7.87	5.59	2.54	5.23	1.40	2.54
H	J	K	L			wt
.030	.026	.065	.300			grams
0.76	0.66	1.65	7.62			0.40

Demo Board MCL P/N: TB-430

Config. A



Features

- excellent amplitude unbalance, 0.1 dB typ. in 1 dB bandwidth
- excellent return loss, 24 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- balanced amplifiers

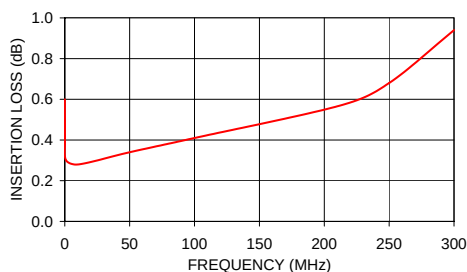
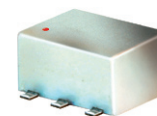
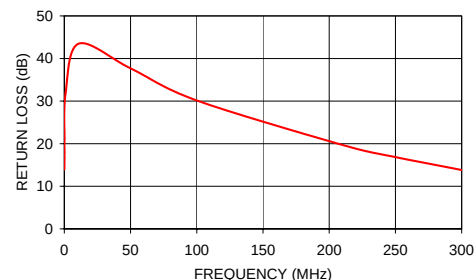
Transformer Electrical Specifications

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	0.06-300	0.06-300	0.08-250	0.15-200	1	2	0.1	0.2

* 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.)
0.06	0.60	13.95	0.00	0.11
0.10	0.42	18.01	0.01	0.04
0.15	0.39	21.16	0.01	0.01
1.00	0.30	31.91	0.01	0.04
10.80	0.28	43.47	0.02	0.00
50.00	0.34	37.69	0.04	0.01
100.00	0.41	30.15	0.12	0.08
212.50	0.57	19.48	0.44	1.79
250.00	0.68	16.85	0.56	3.11
300.00	0.94	13.83	0.70	6.55

ADT4-6T
INSERTION LOSSADT4-6T
INPUT RETURN LOSS

CASE STYLE: CD637
PRICE: \$4.50 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.



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Notes: 1. Performance and quality attributes and conons not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs
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