Surface Mount

RF Transformer

ADT8-1T+ ADT8-1T

0.1 to 130 MHz 50Ω

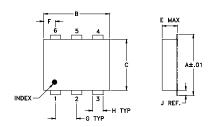
Maximum Ratings

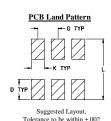
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.5W
DC Current	30mA
Permanent damage may occur if any o	of these limits are exceeded.

Pin Connections

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

Outline Drawing

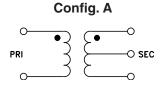




Outline Dimensions (inch)

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

Demo Board MCL P/N: TB-430



Features

- excellent amplitude unbalance, 0.05 dB typ. in 1 dB bandwidth
- aqueous washable

PRICE: \$4.50 ea. QTY (10-49) + RoHS compliant in accordance

CASE STYLE: CD637

with EU Directive (2002/95/EC) The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

• excellent return loss, 20 dB typ. in 1 dB bandwidth

protected under US patent 6,133,525

Applications

- impedance matching
- balanced amplifiers

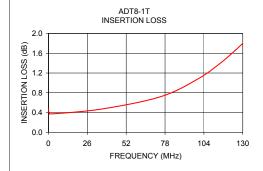
Transformer Electrical Specifications

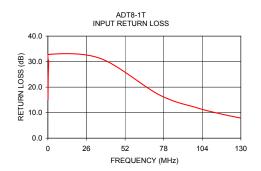
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.		
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
8	0.1-130	0.1-130	0.15-110	0.2-75	1	2	0.5	0.1

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

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)	
0.09	0.47	15.05	0.04	0.00	
0.24	0.40	23.55	0.04	0.00	
0.57	0.40	29.96	0.04	0.03	
1.00	0.37	32.82	0.04	0.04	
35.50	0.47	31.20	0.04	0.91	
75.00	0.72	16.98	0.01	2.34	
100.00	1.08	11.97	0.04	3.69	
115.00	1.40	9.71	0.09	4.78	
125.00	1.66	8.44	0.14	5.67	
130.00	1.80	7.87	0.17	6.17	





For detailed performance specs