Surface Mount

RF Transformer

ADT1-1WT+ **ADT1-1WT**

750 0.4 to 800 MHz



CASE STYLE: CD542 PRICE: \$2.95 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.

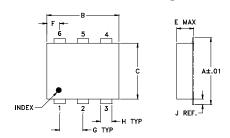
Maximum Ratings

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	of these limits are exceeded

Pin Connections

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

Outline Drawing



PCB Land Pattern

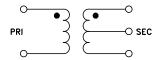
Suggested Layout. Tolerance to be within ±.002

Outline Dimensions (inch)

G .100 2.54	F . 055 1.40	E . 112 2.84	.100 2.54	C . 220 5.59	B .310 7.87	A . 272 6.91
wt grams 0.20			L .300 7.62	K . 065 1.65	J . 026 0.66	H . 030 0.76

Demo Board MCL P/N: TB-430

Config. A



Features

- excellent amplitude unbalance, 0.1 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

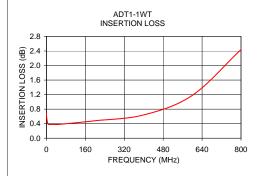
Transformer Electrical Specifications

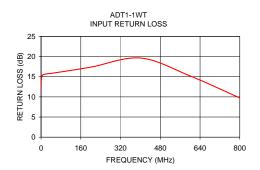
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		SERTION LOSS* PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.		
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	0.4-800	0.4-800	0.5-700	1-400	1	4	0.1	0.5

^{*} 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.)
0.30	0.68	12.11	0.15	0.25
1.00	0.57	14.38	0.07	0.36
5.00	0.42	15.29	0.03	0.41
10.00	0.38	15.54	0.00	0.40
25.00	0.38	15.73	0.02	0.37
50.00	0.38	15.91	0.03	0.49
200.00	0.48	17.38	0.03	1.48
400.00	0.64	19.64	0.26	2.02
600.00	1.18	15.20	0.79	1.45
800.00	2.44	9.75	1.72	0.40





For detailed performance specs

