

Surface Mount RF Transformer

ADT9-1T+ ADT9-1T

50Ω 1 to 250 MHz

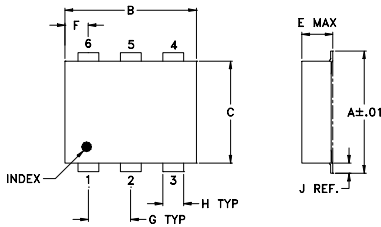
Maximum Ratings

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

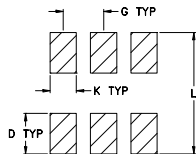
Pin Connections

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 ±.002

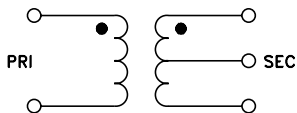
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54

H	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

Config. A



Features

- good return loss, 13 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.05 dB typ. in and phase unbalance, 1 deg. typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- baluns



CASE STYLE: CD542
PRICE: \$3.95 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.

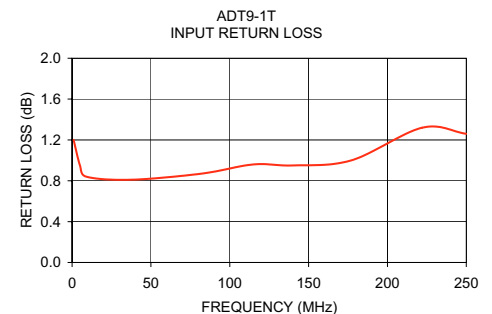
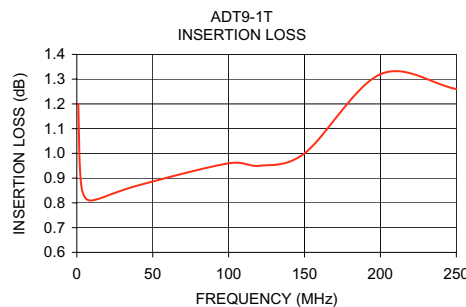
Transformer Electrical Specifications

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
9	1-250	-	1-250	2-150	1	1	0.05	0.2

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1.00	1.20	13.07	0.03	0.05
2.00	0.95	14.28	0.02	0.05
4.00	0.84	14.97	0.02	0.02
10.00	0.81	15.21	0.02	0.07
40.00	0.87	14.68	0.02	0.27
100.00	0.96	12.96	0.02	0.78
120.00	0.95	12.27	0.02	0.93
150.00	1.00	11.19	0.01	1.19
200.00	1.32	9.52	0.00	1.71
250.00	1.26	8.05	0.03	2.32



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RF/IF MICROWAVE COMPONENTS

REV. E
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071101