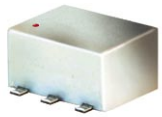
Surface Mount

RF Transformer

50Ω 8 to 600 MHz

ADT2-1T-1P+
ADT2-1T-1P



CASE STYLE: CD542
PRICE: $4.25 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	1W
DC Current	30mA

Pin Connections

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

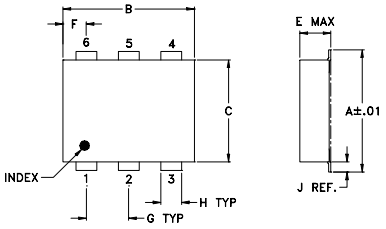
Features

- excellent return loss, 15 dB typ.
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 1 deg. typ.
- high RF power up to 1 watt
- aqueous washable
- protected under US patent 6,133,525

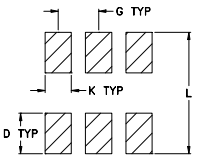
Applications

- impedance matching
- baluns

Outline Drawing



PCB Land Pattern



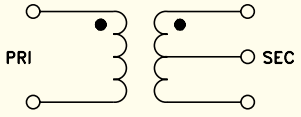
Suggested Layout,
Tolerance to be within ±.002

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

Config. A



Transformer Electrical Specifications

Ω RATIO	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
2	8-600	8-600	10-400	13-300	1	1	0.2	0.3

* Insertion Loss is referenced to mid-band loss, 0.5 dB typ.

Typical Performance Data

FREQUENCY (MHz)	INERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
8.00	0.74	14.43	0.00	0.06
9.50	0.72	15.42	0.01	0.06
15.50	0.65	16.83	0.00	0.03
58.75	0.54	18.72	0.01	0.14
100.00	0.56	17.66	0.03	0.00
200.00	0.79	14.80	0.13	0.11
300.00	1.02	12.34	0.33	0.51
400.00	1.05	10.45	0.66	1.24
500.00	1.09	9.00	1.10	2.48
600.00	1.13	7.78	1.78	4.22

ADT2-1T-1P
INSERTION LOSS