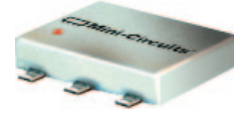


Surface Mount

# RF Transformer

75Ω 5 to 300 MHz

## ADT2-32-1+



CASE STYLE: CD542  
PRICE: Contact Sales Dept.

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Maximum Ratings

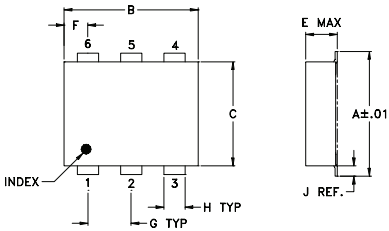
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	26 dBm(0.40W)
DC Current(Into Secondary CT)	300mA

Permanent damage may occur if any of these limits are exceeded.

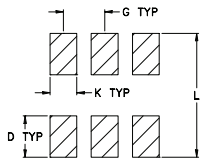
### Pin Connections

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

### 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

### Features

- excellent return loss, 25 dB typ.
- excellent amplitude unbalance, 0.6 dB typ. and phase unbalance, 4 deg typ.
- aqueous washable
- protected under US patent 6,133,525

### Applications

- impedance matching
- balanced amplifier

### Electrical Specifications at 25°C

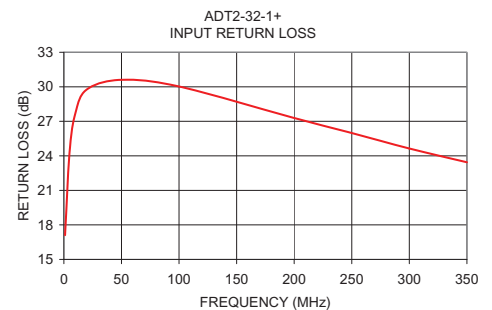
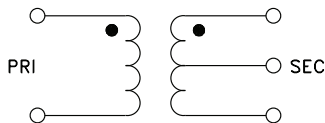
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			2		Ohm
Frequency Range		5		300	MHz
Insertion Loss*	5-300		0.4	0.6	dB
Amplitude Unbalance	5-300		0.8	0.9	dB
Phase Unbalance	5-300		4	9	Degree
Return Loss	5-300	16			dB
IP3 (6 MHz Tone spacing at 6dBm)	16	50			dBm
	50				
	150				
	200				
	300				

\* Insertion Loss is referenced to mid-band loss, 0.4 dB.

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1.0	0.81	17.11	0.13	0.27
5.0	0.50	24.38	0.07	0.33
10.0	0.43	27.70	0.02	0.25
20.0	0.41	29.78	0.01	0.11
50.0	0.43	30.61	0.03	0.90
100.0	0.48	30.03	0.08	1.96
200.0	0.53	27.29	0.26	3.91
250.0	0.56	25.98	0.40	4.78
300.0	0.60	24.64	0.58	5.60
350.0	0.65	23.44	0.79	6.33

### Config. A



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

Notes: 1. Performance and quality attributes and conditions 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-Circuit'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](http://www.minicircuits.com/MCLStore/terms.jsp).