

Non-Catalog Model

RF Transformer

Impedance Ratio: 4

ADT4-1T-2



CASE STYLE: CD636

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.

Please click "Back", and then click "Contact Us" for Applications support.

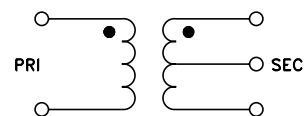
ELECTRICAL SPECIFICATIONS 50Ω @+25°C P_{IN}=0 dBm

Parameter		Min.	Typ.	Max.	Units
Frequency		0.2		350	MHz
Insertion Loss	3dB bandwidth	0.2		350	MHz
	2dB bandwidth	0.35		300	MHz
	1dB bandwidth	2		170	MHz
Amplitude Unb.	over 1dB freq. range		0.1		dB
	over entire freq. band		0.5		dB
Phase Unb.	over 1dB freq. range		1.0		deg.
	over entire freq. band		5.0		deg.

MAXIMUM RATINGS

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power	2W
DC Current	30mA

Configuration A



PIN CONNECTIONS

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

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RF/IF MICROWAVE COMPONENTS

REV. OR
M113463
ED-7826/2
ADT4-1T-2
070917

RF Transformer

ADT4-1T-2

Typical Performance Data

FREQUENCY (MHz)	AVERAGE INSERTION LOSS (dB)	INPUT RETURN LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (deg.)
0.20	1.27	8.81	0.07	0.00
0.35	0.92	12.84	0.07	0.01
0.68	0.80	16.93	0.07	0.07
1.00	0.76	18.82	0.07	0.00
2.00	0.63	21.76	0.06	0.02
26.50	0.45	29.76	0.07	0.03
51.00	0.49	29.12	0.06	0.06
75.50	0.53	28.04	0.07	0.03
100.00	0.56	26.84	0.08	0.01
110.00	0.56	26.36	0.08	0.01
148.00	0.60	24.46	0.11	0.01
186.00	0.64	22.61	0.13	0.15
224.00	0.68	20.84	0.16	0.30
262.00	0.70	19.20	0.20	0.51
300.00	0.78	17.65	0.24	0.68
310.00	0.80	17.25	0.25	0.80
330.00	0.82	16.48	0.27	1.06
350.00	0.83	15.75	0.29	1.31



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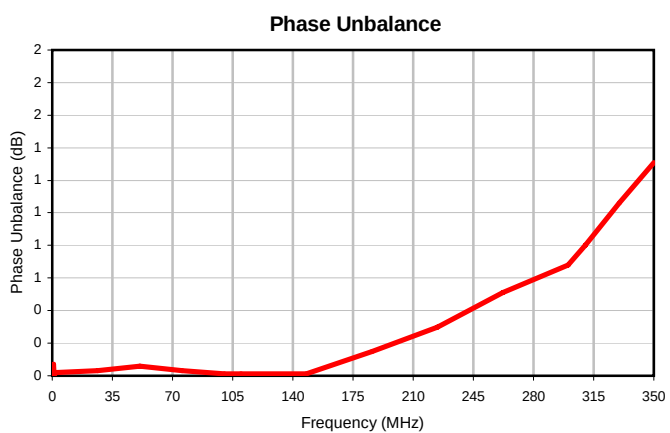
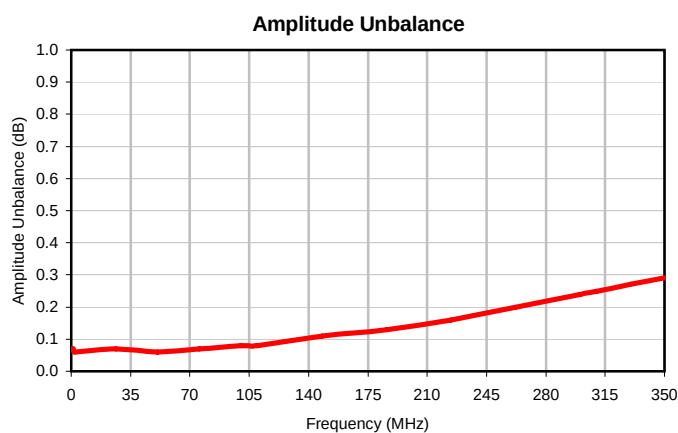
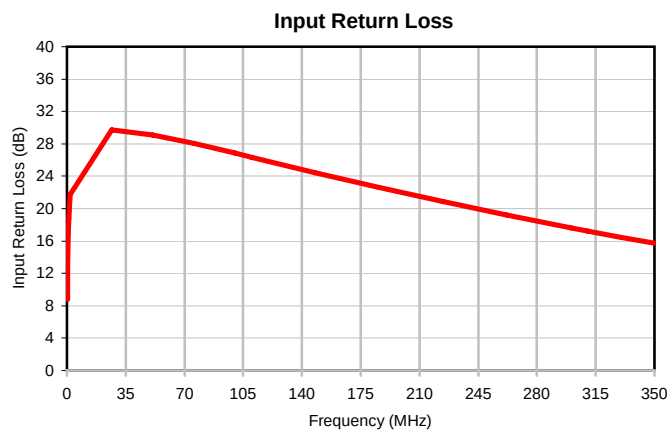
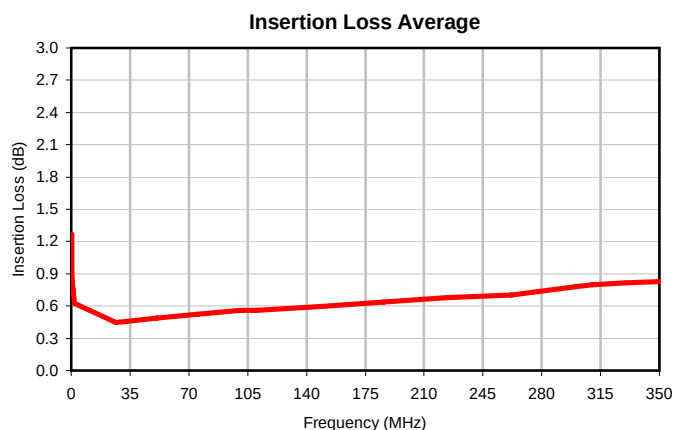
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RF/IF MICROWAVE COMPONENTS



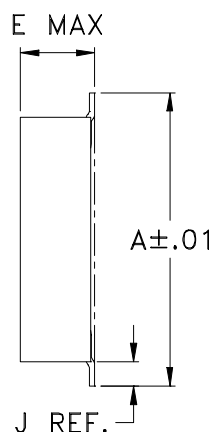
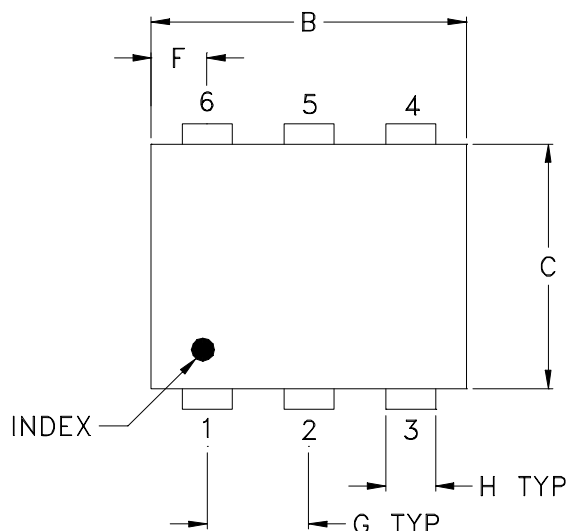
REV. X1
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2/20/2008
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Typical Performance Data

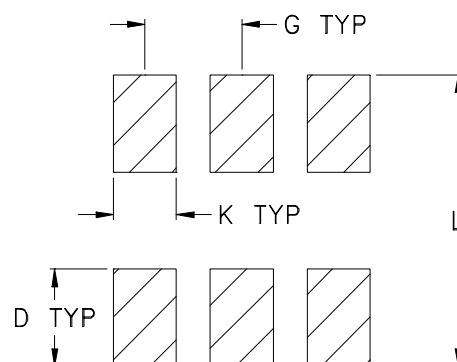


CD541
CD542
CD636
CD637

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm .002$

CASE#	A	B	C	D	E	F	G	H	J	K	L	WT, GRAM
CD541					.082 (2.08)							.15
CD542	.272 (6.91)	.310 (7.87)	.220 (5.58)	.100 (2.54)	.112 (2.84)	.055 (1.40)	.100 (2.54)	.030 (0.76)	.026 (0.66)	.065 (1.65)	.300 (7.62)	.20
CD636					.162 (4.11)							.25
CD637					.206 (5.23)							.40

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .01$; 3 Pl. $\pm .005$

Notes:

- Case material: Plastic.
- Termination finish:
For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



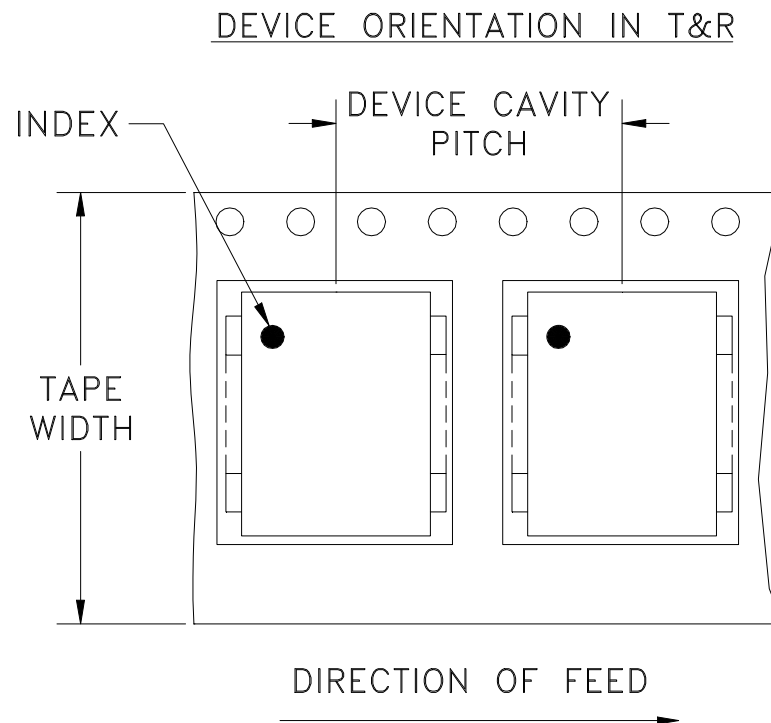
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Tape & Reel Packaging TR-F34



Tape Width, mm	Device Cavity Pitch, mm	Reel Size, inches	Devices per Reel see note	
16	12	7	Small quantity standard (see note)	20
				50
				100
				200
		13	Standard	500
				1000

Note: Availability of small reel quantity varies by model.
Refer to pricing and availability on individual model dashboard.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Humidity	90 to 95% RH, 240 hours, 50°C	MIL-STD-202, Method 103, Condition A, Except 50°C and end-point electrical test done within 12 hours
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
Solder Reflow Heat	Sn-Pb Eutetic Process: 225°C peak Pb-Free Process 245° - 250°C peak	J-STD-020, Table 4-1, 4-2 and 5-2, Figure 5-1
Solderability	10X Magnification	J-STD-002, 95% Coverage
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes	MIL-STD-202, Method 213, Condition A
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215