Engineering Development Model

RF Transformer ADT1.3-ED11102/2

Impedance Ratio : 1.3

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability.
At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.

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

CASE STYLE : CD542

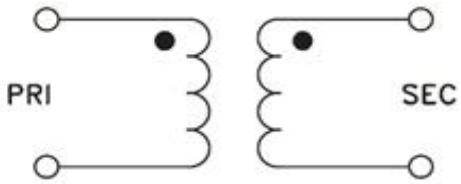
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		0.2		1200	MHz
Insertion Loss *	**3 dB Bandwidth**		0.2 - 1300		MHz
	2 dB Bandwidth		1 - 600		MHz
	1 dB Bandwidth		5 - 100		MHz

Note:
* Insertion Loss is referenced to mid-band loss, 0.43dB typ.

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

PIN CONNECTIONS	
PRIMARY DOT	3
PRIMARY	1
SECONDARY DOT	4
SECONDARY	6
NOT USED	2,5

Configuration : C



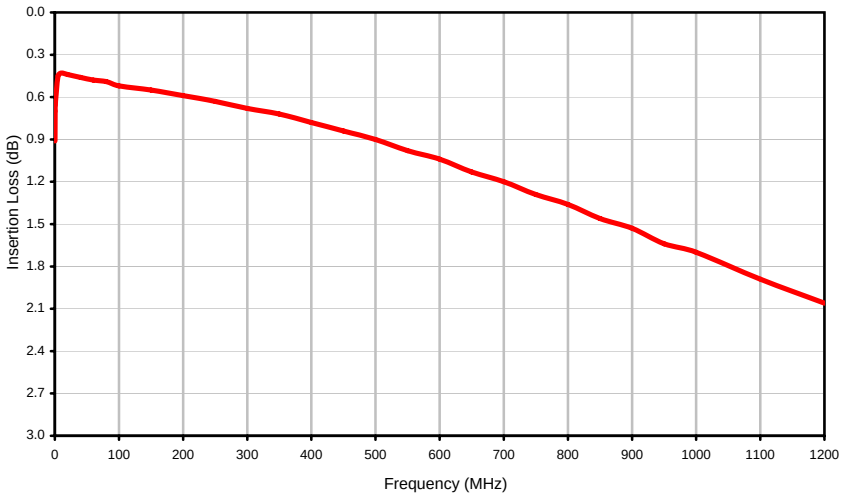
RF Transformer ADT1.3-ED11102/2

Typical Performance Data

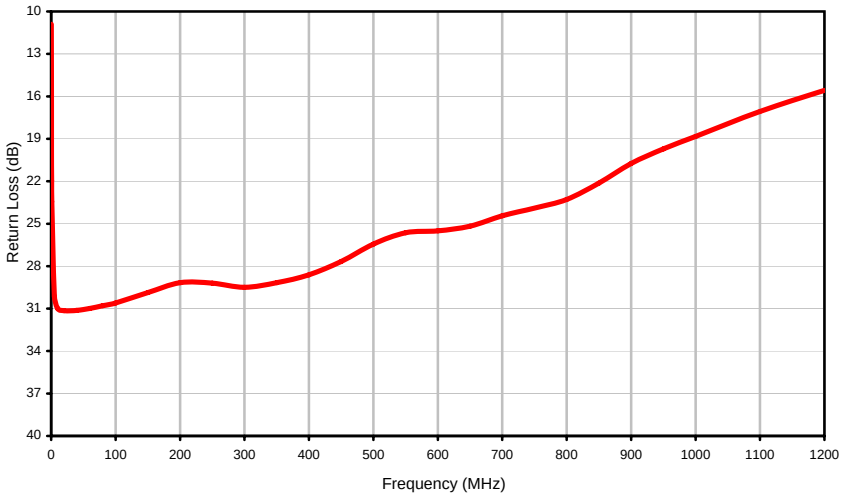
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
0.20	0.91	10.90
0.40	0.70	16.62
0.60	0.66	19.84
0.80	0.65	21.95
1.00	0.63	23.44
5.00	0.45	30.10
10.00	0.43	30.99
20.00	0.44	31.15
40.00	0.46	31.12
60.00	0.48	30.99
80.00	0.49	30.79
100.00	0.52	30.60
150.00	0.55	29.87
200.00	0.59	29.17
250.00	0.63	29.20
300.00	0.68	29.49
350.00	0.72	29.17
400.00	0.78	28.61
450.00	0.84	27.67
500.00	0.90	26.44
550.00	0.98	25.64
600.00	1.04	25.50
650.00	1.13	25.17
700.00	1.20	24.44
750.00	1.29	23.90
800.00	1.36	23.29
850.00	1.46	22.13
900.00	1.53	20.74
950.00	1.64	19.71
1000.00	1.70	18.83
1100.00	1.89	17.07
1200.00	2.06	15.58

Typical Performance Curves

Insertion Loss



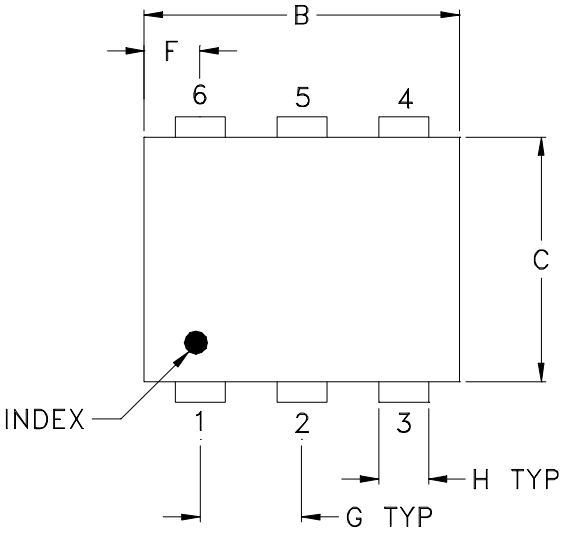
Return Loss

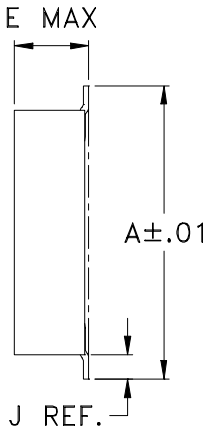


Case Style CD

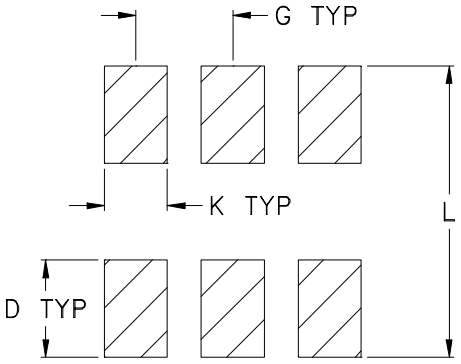
CD541
CD542
CD636
CD637

Outline Dimensions





PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

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

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

Notes:

1. Case material: Plastic.
2. 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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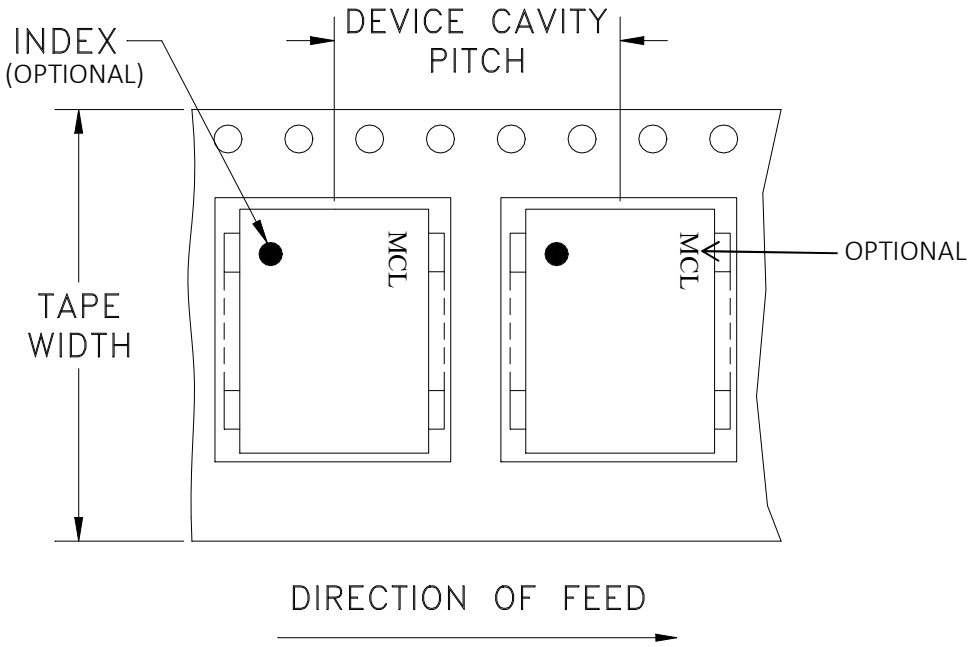
DEVICE ORIENTATION IN T&R



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.

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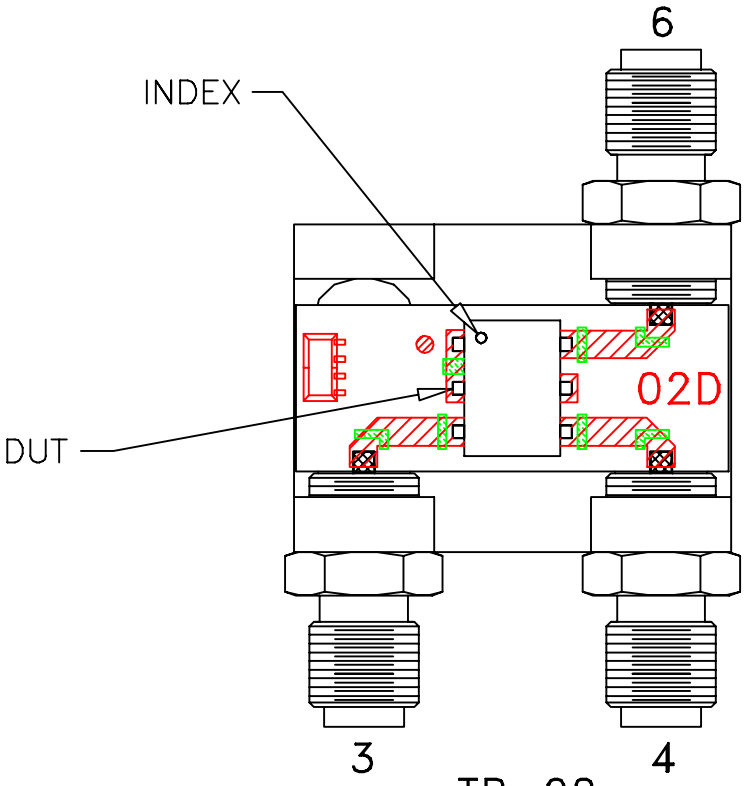
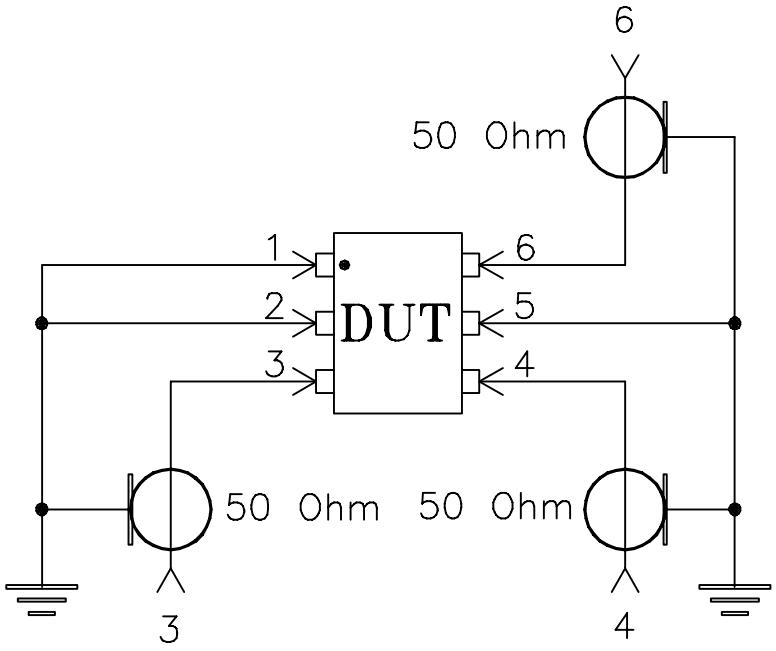
Evaluation Board and Circuit

For Pin Connections refer to Data Sheet of the DUT



TB-02



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers RO4350 or equivalent, Dielectric Constant=3.5, Thickness=.030 inch.

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