

Engineering Development Model

RF Transformer

ADT25-ED10790/1

Impedance Ratio : 25

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 : CD637

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	2		350	MHz
Insertion Loss *	3 dB Bandwidth	2 - 350		MHz
	2 dB Bandwidth	3 - 350		MHz
	1 dB Bandwidth	4 - 350		MHz

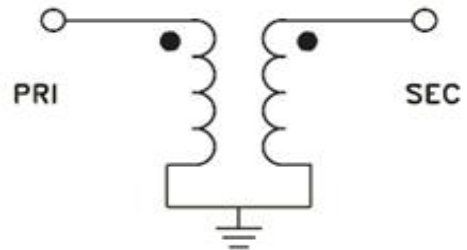
Note:

* Insertion Loss is referenced to mid-band loss, 1.43dB 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	1
PRIMARY	3
SECONDARY DOT	6
SECONDARY	3
NOT USED	2,4,5

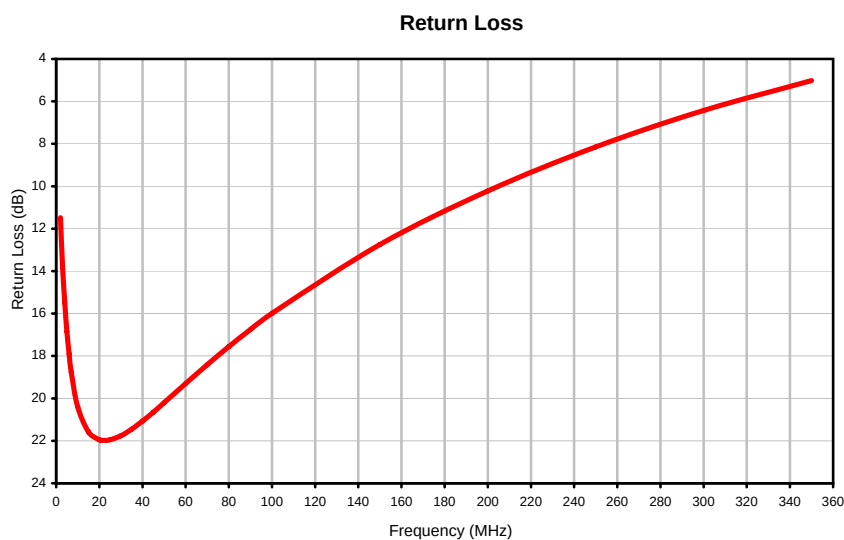
Configuration : D



Typical Performance Data

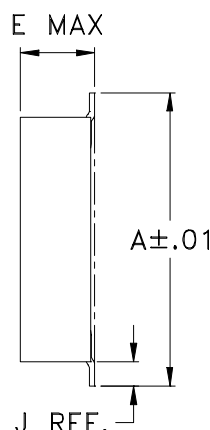
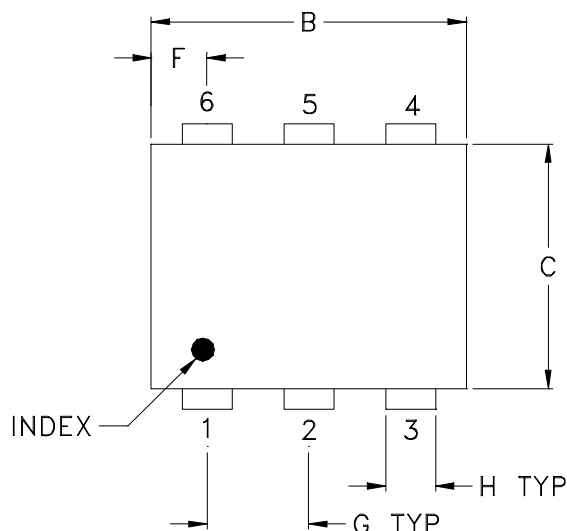
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
2.00	2.60	11.48
3.00	2.16	13.79
4.00	1.93	15.49
5.00	1.80	16.84
6.00	1.73	17.90
7.00	1.68	18.75
10.00	1.62	20.40
15.00	1.58	21.58
20.00	1.58	21.95
21.00	1.58	21.98
23.00	1.59	21.98
25.00	1.59	21.95
30.00	1.61	21.76
35.00	1.62	21.45
40.00	1.63	21.07
45.00	1.64	20.65
50.00	1.65	20.21
60.00	1.66	19.30
70.00	1.66	18.41
80.00	1.65	17.56
90.00	1.65	16.75
100.00	1.64	15.99
150.00	1.57	12.75
200.00	1.48	10.22
250.00	1.43	8.15
300.00	1.47	6.43
350.00	1.66	5.02

Typical Performance Curves

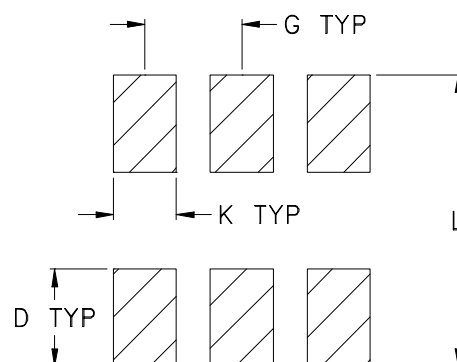


CD541
CD542
CD636
CD637

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.



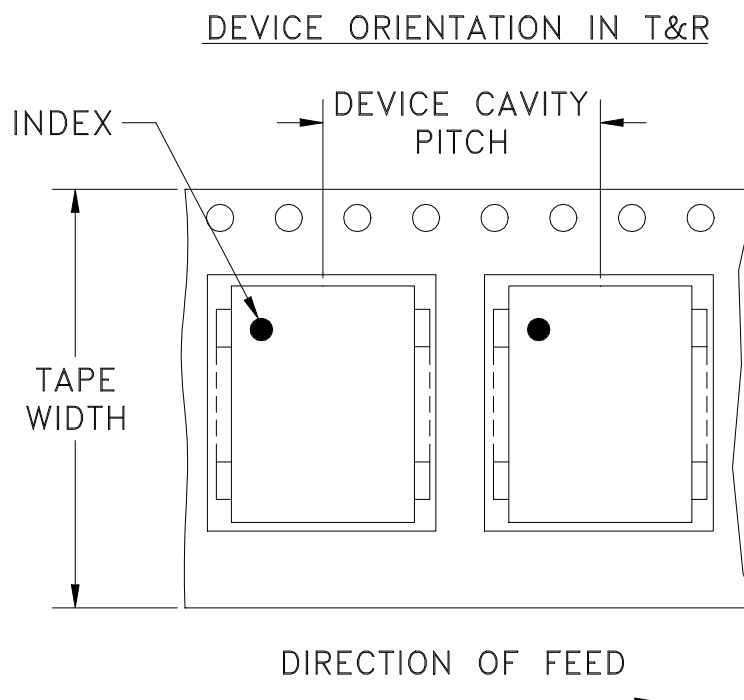
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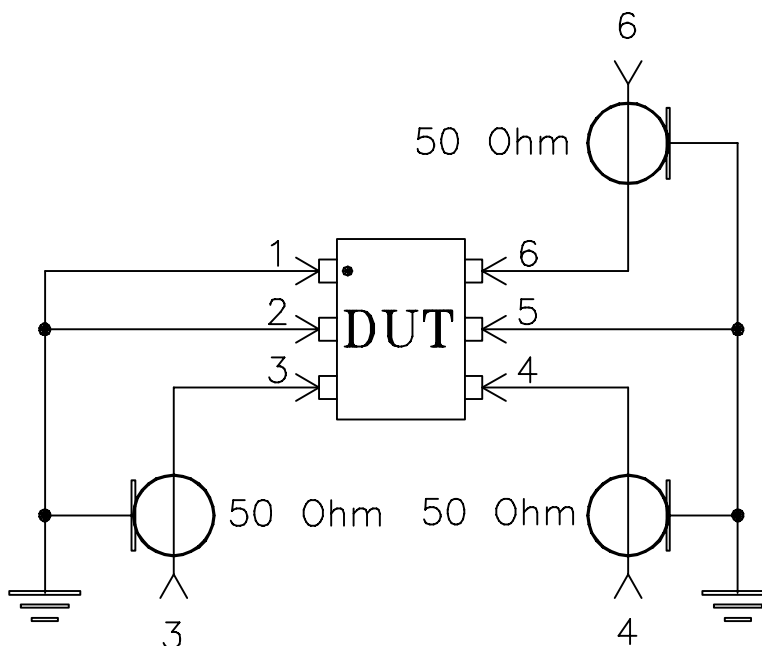
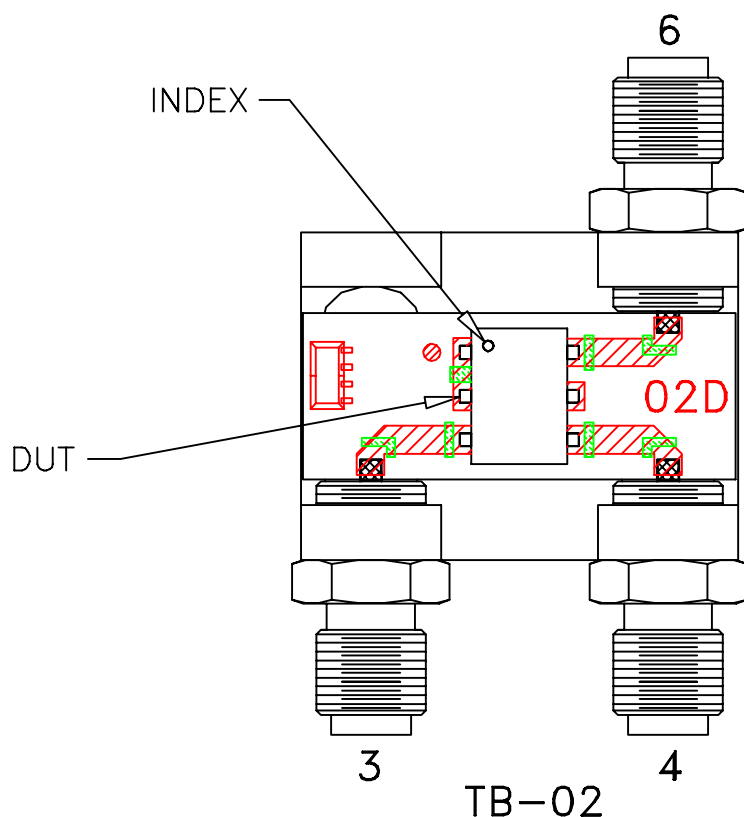
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Evaluation Board and Circuit

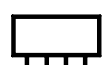
For Pin Connections refer to Data Sheet of the DUT



Schematic Diagram

Notes:

1. SMA Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.030 inch.

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