

Engineering Development Model

RF Transformer

ADTL-ED7983/2

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

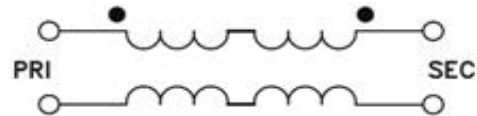
ELECTRICAL SPECIFICATIONS 75Ω @ +25°C					
Parameter		Min.	Typ.	Max.	Units
Frequency		1		3100	MHz
Insertion Loss *	3 dB Bandwidth		1 - 3100		MHz
	2 dB Bandwidth		1.5 - 1750		MHz
	1 dB Bandwidth		2 - 1300		MHz

Note:

* Insertion Loss is referenced to mid-band loss, 0.24dB 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

Configuration : G



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

RF Transformer

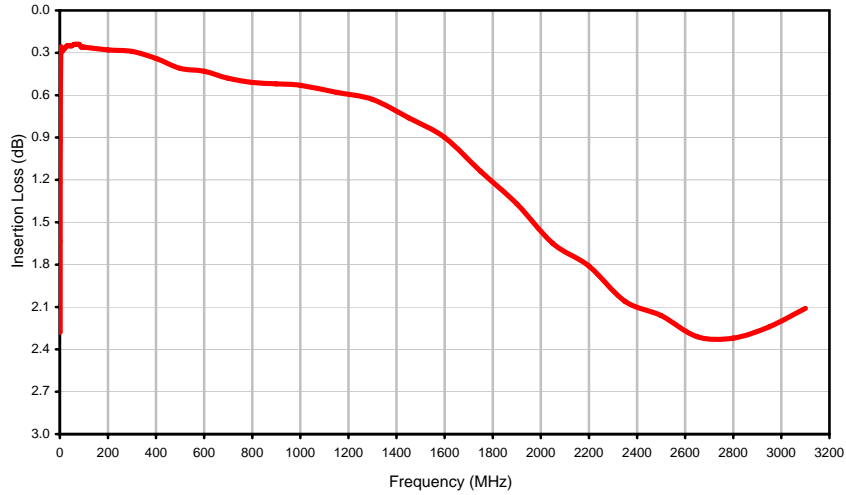
ADTL-ED7983/2

Typical Performance Data

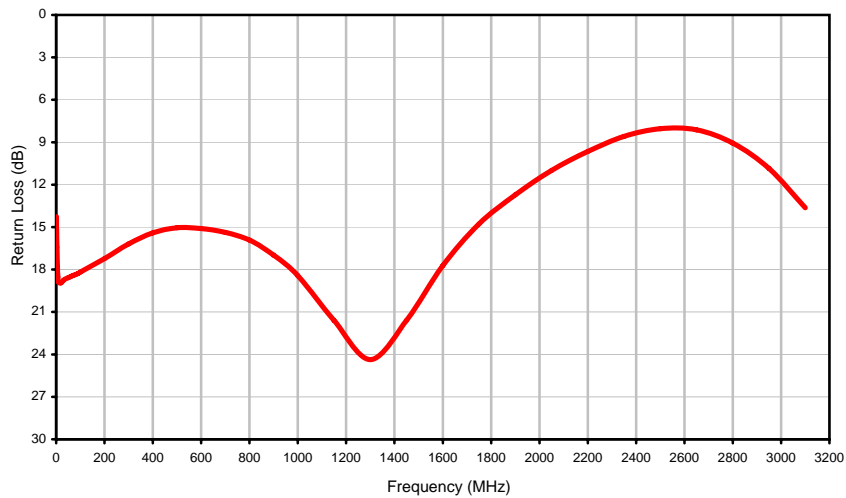
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
1.00	2.28	14.27
1.25	1.63	14.57
1.50	1.22	14.88
1.75	0.93	15.17
2.00	0.74	15.45
3.00	0.37	16.42
5.00	0.26	17.78
7.00	0.28	18.54
9.00	0.29	18.88
20.00	0.27	18.95
30.00	0.25	18.77
40.00	0.25	18.65
50.00	0.25	18.58
60.00	0.24	18.50
70.00	0.24	18.42
80.00	0.24	18.36
90.00	0.26	18.28
100.00	0.26	18.18
200.00	0.28	17.23
300.00	0.29	16.19
400.00	0.34	15.41
500.00	0.41	15.05
600.00	0.43	15.10
700.00	0.48	15.37
800.00	0.51	15.92
900.00	0.52	16.98
1000.00	0.53	18.43
1150.00	0.58	21.61
1300.00	0.63	24.37
1450.00	0.76	21.59
1600.00	0.90	17.71
1750.00	1.14	14.77
1900.00	1.37	12.72
2050.00	1.65	11.00
2200.00	1.81	9.65
2350.00	2.06	8.59
2500.00	2.16	8.04
2650.00	2.31	8.12
2800.00	2.32	9.06
2950.00	2.24	10.85
3100.00	2.11	13.63

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 $\pm .002$

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.

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