Coaxial Diplexer

50O **DC-2150 MHz** (DC-10, 50-2150 MHz)

The Big Deal

- Low insertion loss
- High Rejection
- Connectorized package

ZDPLX-2150+



Product Overview

ZDPLX-2150+ is a low-pass + high-pass combination device. Low pass port is designed for DC to 10 MHz and high pass port is designed for 50 to 2150 MHz. This diplexer is used in satellite, CATV, set-top box, modem, video equipment and multiband radio systems.

Kev Features

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Feature	Advantages		
Low passband insertion loss	Suitable for high performance application.		
Extended stopband rejection	Spurious rejection and eliminates usage of additional filtering		
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.		

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Notes

Coaxial **Diplexer**

DC to 2150 MHz (DC-10, 50-2150 MHz) 50Ω

Maximum Ratings

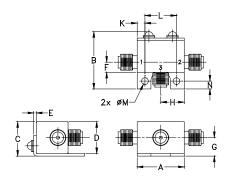
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Voltage at DC Port	25V max.
Input Current	100 mA
RF Power Input	400 mW

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

Coaxial Connections

HIGH PASS PORT	1
LOW PASS PORT	2
COMMON PORT	3

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G
.74	.90	. 54	. 50	. 04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37
H .37 9.40	J 	K . 122 3.10	L . 496 12.60	M . 106 2.69	N . 122 3.10	wt grams 20.0

Features

- Low insertion loss
- 50 Ω Impedance
- · Combination of low pass and high pass filters • Connectorized package

Applications

- Set-top box
- Satellite
- CATV

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CASE STYLE: FL905 Connectors Model ZDPLX-2150-S+ SMA

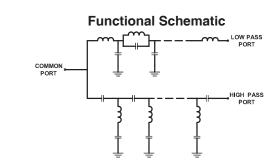
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Parameter		Port	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	Low Pass	DC-10	-	0.5	1	dB
		High Pass	50-2150	-	0.9	1.5	
Pass Band	Return Loss	Low Pass	DC-10	16	29	-	
		High Pass	50-2150	12	16	-	dB
		Common	DC-10	16	23	-	
			50-2150	12	20	-	
		Low Pass	40-2200	20	31	-	dB
Stop Band Isolation	50-2150		30	44	-	uв	
	High Pass	DC-18	20	33	-	dB	
		DC-10	30	61	-		

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)			
	Low Pass Port	High Pass Port	Common Port	Low Pass Port	High Pass Por	
1	0.31	107.59	28.63	28.90	0.00	
10	0.45	61.63	26.43	33.04	0.12	
18	0.79	32.85	22.37	20.33	0.58	
23	1.77	21.71	10.45	9.59	1.64	
26	3.43	14.34	7.69	5.97	3.94	
29	8.90	4.15	11.57	2.26	15.11	
34	20.66	1.43	19.41	0.70	17.65	
40	30.59	0.87	22.62	0.45	21.32	
50	44.17	0.53	29.02	0.30	25.28	
60	57.24	0.39	32.45	0.23	24.73	
410	63.29	0.07	43.25	0.03	41.67	
1300	55.33	0.14	28.45	0.06	30.12	
1700	58.07	0.24	23.36	0.28	26.32	
2150	55.85	0.77	29.25	0.13	18.05	
2200	55.52	0.55	25.33	0.14	19.61	



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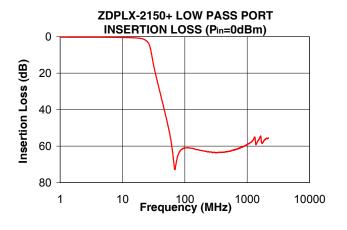
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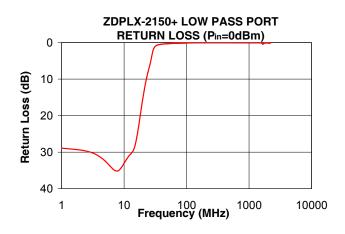
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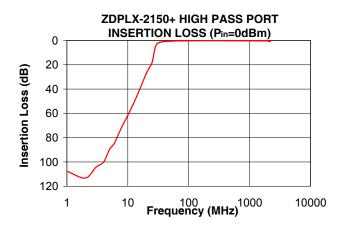
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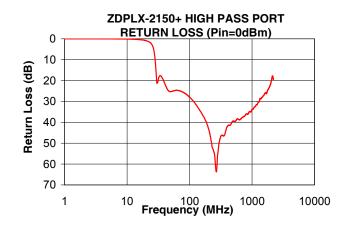
Performance Charts

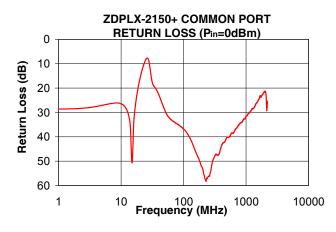
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