Diplexer

ZDPLX-2150+

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

The Big Deal

- Low insertion loss
- High Rejection
- Connectorized package



CASE STYLE: FL905

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.

Key Features

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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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts overed by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the excluse rights and remedies thereunder, please visit Mini-Circuits website at www.minicircuits.com/MCLStore/terms.jsp



ZDPLX-2150+

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

Maximum Ratings

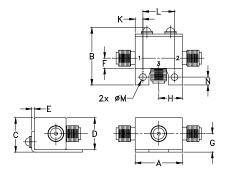
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Voltage at DC Port	25V max.
Input Current	100 mA
RF Power Input	400 mW

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)

G	F	Ε	D	С	В	Α
.29	.16	.04	.50	.54	.90	.74
7.37	4.06	1.02	12.70	13.72	22.86	18.80
				14		
	N	М	_	K	J	Н
grams	.122	.106	.496	.122		.37
20.0	3.10	2.69	12.60	3.10		9.40

Features

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

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

Applications

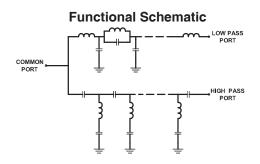
- Set-top box
- Satellite
- CATV

Electrical Specifications at 25°C

Par	ameter	Port	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	Low Pass	DC-10	-	0.5	1	-ID
		High Pass	50-2150	-	0.9	1.5	dB
	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	-	UB	
	High Pass	DC-18	20	33	-	dB	
		DC-10	30	61	-		

Typical Performance Data at 25°C

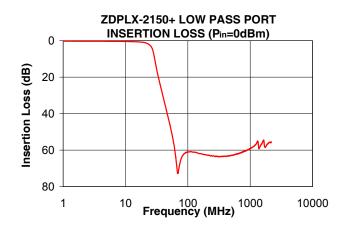
Frequency (MHz)		on Loss B)		Return Loss (dB)		
	Low Pass Port	High Pass Port	Common Port	Low Pass Port	High Pass Port	
1 10 18	0.31 0.45 0.79	107.59 61.63 32.85	28.63 26.43 22.37	28.90 33.04 20.33	0.00 0.12 0.58	
23 26 29	1.77 3.43 8.90	21.71 14.34 4.15	10.45 7.69 11.57	9.59 5.97 2.26	1.64 3.94 15.11	
34 40 50	20.66 30.59 44.17	1.43 0.87 0.53	19.41 22.62 29.02	0.70 0.45 0.30	17.65 21.32 25.28	
60 410	57.24 63.29	0.33 0.39 0.07 0.14	32.45 43.25 28.45	0.23 0.03	24.73 41.67	
1300 1700 2150 2200	55.33 58.07 55.85 55.52	0.14 0.24 0.77 0.55	23.36 29.25 25.33	0.06 0.28 0.13 0.14	30.12 26.32 18.05 19.61	

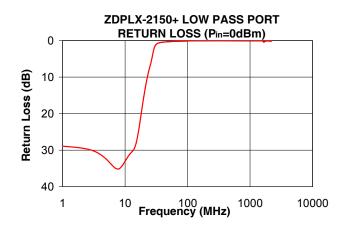


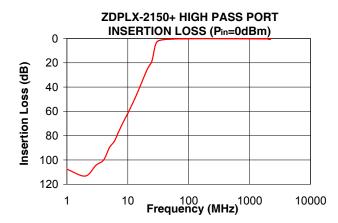
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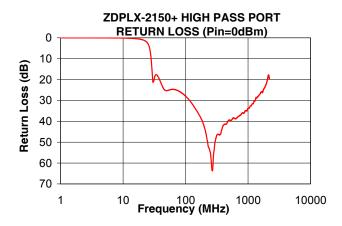
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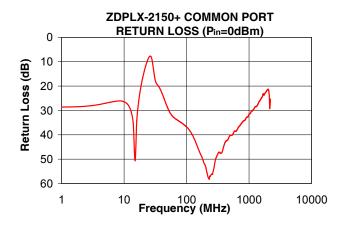
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