Low Pass Filter

ZLPF-120+

 50Ω DC to 120 MHz

The Big Deal

- · High rejection
- Fast roll-off
- Good VSWR
- Connectorized package



CASE STYLE: CC1935

Product Overview

ZLPF-120+ is a 50Ω low pass filter built in connectorized package. Covering DC-120 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. This will find its applications in military communication and mobile satellites. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages
Low passband insertion loss	Suitable for high performance application
Fast roll-off	Provides very good adjacent band rejection
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups
Good VSWR	Provides good interface when used with other devices.

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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.

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Features

· High rejection

Fast roll-off

Good VSWR

Applications · Military Communication · Mobile satellite · Auxiliary broadcasting

· Connectorized package

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ZLPF-120+



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Connectors Model ZLPF-120+ SMA-F

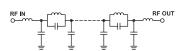
Flectrical Specifications at 25°C

Electrical opening at 20 0							
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-120	_	2.5	4.0	dB
Pass Band	Freq. Cut-Off	F2	121	_	3.0	_	dB
	VSWR	DC-F1	DC-120	_	1.3	1.9	:1
Stop Band	Insertion Loss	F3-F4	125-2000	20	30.3	_	dB
	VSWR	F3-F4	125-2000	_	20	_	-1

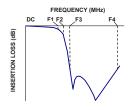
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	2.0W max.			

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

Functional Schematic



Typical Frequency Response

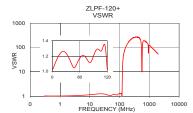


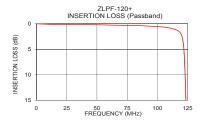
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

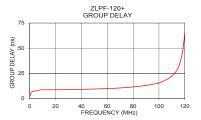
Typical Performance Data at 25°C

	• • • • • • • • • • • • • • • • • • • •			
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.3	0.00	1.03	0.3	2.35
10.0	0.11	1.16	1.0	5.71
50.0	0.20	1.06	2.0	6.50
100.0	0.57	1.29	5.0	7.40
120.0	2.30	1.04	10.0	8.45
121.0	3.21	1.22	15.0	8.44
123.8	17.91	6.63	20.0	8.46
124.0	20.01	7.43	25.0	8.52
125.0	30.15	11.60	30.0	8.62
150.0	34.12	81.25	35.0	8.76
250.0	78.16	225.77	40.0	8.92
400.0	70.09	266.54	45.0	9.09
550.0	72.68	56.81	50.0	9.26
750.0	74.67	177.50	75.0	10.76
900.0	89.91	139.76	90.0	12.83
950.0	66.32	118.54	100.0	14.96
1000.0	71.51	123.80	105.0	18.05
1050.0	72.50	120.33	110.0	22.14
1500.0	72.03	76.72	115.0	30.94
2000.0	65.26	53.68	120.0	66.01









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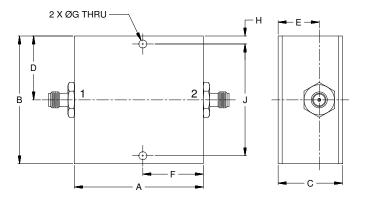
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Coaxial Connections

INPUT	SMA-Female		
OUTPUT	SMA-Female		

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Е
2.00	2.00	1.00	1.00	.638
50.80	50.80	25.40	25.40	16.21
F	G	Н	J	Wt.
.938	.125	.125	1.750	grams
00 00				400
23.83	3.18	3.18	44.45	103

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