ZLPF-120+

 50Ω DC to 120 MHz

The Big Deal

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



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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

Low Pass Filter

 50Ω DC to 120 MHz

ZLPF-120+



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Connectors Model
SMA-F ZLPF-120+

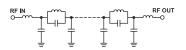
Electrical Specifications at 25°C

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
Stop Band	VSWR	F3-F4	125-2000	_	20	_	:1

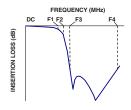
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	2.0W max.			

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

Functional Schematic



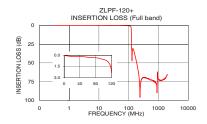
Typical Frequency Response

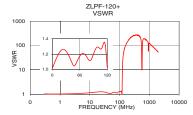


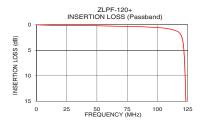
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

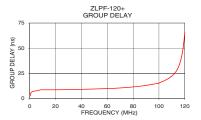
Typical Performance Data at 25°C

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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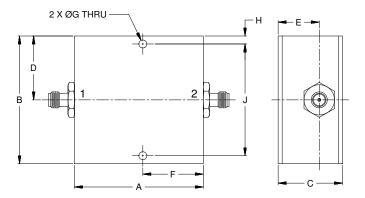
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Coaxial Connections

INPUT	SMA-Female
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

	V 111111 /			
Е	D	С	В	Α
.638	1.00	1.00	2.00	2.00
16.21	25.40	25.40	50.80	50.80
			_	_
Wt.	J	Н	G	F
grams	1.750	.125	.125	.938
103	44.45	3.18	3.18	23.83

Note: Please refer to case style drawing for details

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