Coaxial Low Pass Filter

50 Ω DC to 450 MHz

ZFLP-450+

The Big Deal

- Wide stopband Rejection
- · Good VSWR, 1.2:1 typical in passband
- High Rejection



CASE STYLE: H16

Product Overview

ZFLP-450+ is a 50 Ω lowpass filter built into a rugged connectorized package (size :1.25" x 1.25" x 0.75") case. The model has high rejection, wide stopband rejection with well matched input and output ports. This is designed to handle high power (1W)

Key Features

Feature	Advantages				
Wide stopband (More than 1 de- cade of cutoff frequency)	Suitable for application which needs far-frequency attenuation, for e.g. Defense Communications.				
Good VSWR, 1.2:1 typical in passband	The model has good matching when used with other devices.				
High Rejection	This enables the filter to attenuate harmonics and spurious signals.				



For detailed performance specs & shopping online see web site

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet are intended to be excluded and do not form a part of this specification sheet are subject to finite order the standard introductions. 3. The parts covered by this specification sheet are subject to finite order standard introductions and performance data contained herein are based on Min-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test are an entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchardsers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchardsers of this parts covered by this specification sheet are subject to Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

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50 Ω DC to 450 MHz

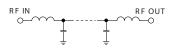
Features

- High Rejection
- Wide stopband rejection
- Good VSWR,1.2:1 typical in passband
- Rugged connectorized package

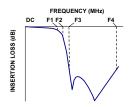
Applications

- Harmonic rejection
- Defense Communications
- Receivers / Transmitters
- Lab Use

Functional Schematic



Typical Frequency Response

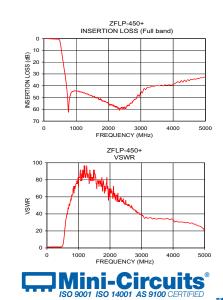


+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)		
0.5	0.02	1.00	0.5	1.75		
3.5	0.02	1.01	5.0	1.63		
20.0	0.05	1.02	165.0	1.72		
50.0	0.08	1.03	195.0	1.74		
80.0	0.10	1.03	240.0	1.85		
205.0	0.22	1.14	280.0	1.94		
405.0	0.39	1.11	290.0	1.98		
450.0	0.48	1.10	305.0	2.00		
480.0	0.88	1.65	325.0	2.09		
500.0	2.10	2.91	335.0	2.14		
505.0	2.60	3.45	360.0	2.26		
530.0	6.44	8.35	375.0	2.35		
570.0	14.03	23.18	385.0	2.41		
640.0	27.28	40.41	390.0	2.48		
730.0	48.04	52.65	400.0	2.53		
1000.0	44.04	72.39	405.0	2.55		
1500.0	48.71	91.43	415.0	2.65		
2000.0	52.62	69.49	425.0	2.80		
3000.0	43.66	38.61	440.0	3.03		

20.95



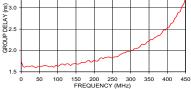
30.58

5000.0



450.0

3.23



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ZFLP-450+



CASE STYLE: H16							
Connectors Model Price Qty.							
SMA-Female	\$49.95 ea.	(1-9)					
BRACKET (OP	\$5.00 ea.	(1-9)					

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz) Min.		Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-450	—	0.5	1.0	dB
Pass Band	Freq. Cut-Off	F2	505	—	4.0	—	dB
	VSWR	DC-F1	DC-450	—	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	640-5000	20	26	_	dB
Stop Band	VSWR	F3-F4	640-5000	_	21	_	:1

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	1W max. at 25°C			

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

Typical Performance Data at 25°C

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REV. OR

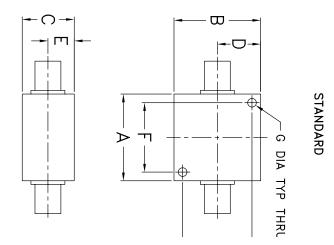
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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch)

A 1.25 31.75	1.25	.75		.38	F 1.000 25.40	.125	1.000
J 	к 	.125	1.688			Q .06 1.52	



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