SHP-48+

 50Ω 48 to 2150 MHz

The Big Deal

- Low insertion loss
- High rejection
- Connectorized package



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Product Overview

SHP-48+ is a High pass filter in a connectorized package covering 48 to 2150 MHz. This filter can be used in SATCOM, CATV, Broadband Fiber Networks and Multiband radio systems. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages
Low insertion loss	Can be used in high performance applications.
Good rejection	This enables the filter to attenuate spurious signals and reject harmonics for broad band frequency.
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.

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.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warnanty 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 exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

• High rejection

Applications SATCOM

CATV

High Pass Filter

50O 48 to 2150 MHz

• Wide band, 48 MHz to 2150 MHz

• Connectorized package

• Broadband Fiber Networks

 Radio communications • Receivers \ transmitters

SHP-48+



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Connectors Model

SMA-M\F SHP-48+

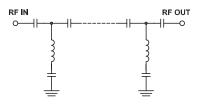
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Ston Bond	Rejection Loss	DC-F1	DC-18	20	31	-	dB
Stop Band	VSWR	DC-F1	DC-18	-	40	-	:1
Pass Band	Insertion Loss	F2-F3	48-2150	-	0.6	1.2	dB
	VSWR	F2-F3	48-2150	_	1 15	_	-1

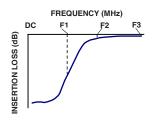
Maximum Ratings		
Operating Temperature	-40°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power Input	0.5 W.	

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

Functional Schematic



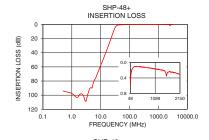
Typical Frequency Response

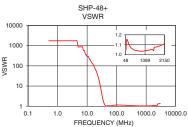


+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

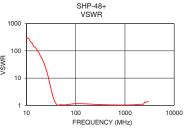
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
0.5	94.13	1737.18	
5.5	83.29	868.59	
8.5	64.96	434.30	
12.0	49.88	217.15	
18.0	31.26	82.73	
24.0	17.08	26.33	
28.0	9.38	10.07	
31.0	5.06	4.54	
34.0	2.54	2.32	
39.0	1.08	1.23	
48.0	0.59	1.06	
57.0	0.43	1.05	
63.0	0.37	1.06	
74.0	0.30	1.10	
96.0	0.23	1.15	
150.0	0.15	1.14	
340.0	0.10	1.07	
1150.0	0.18	1.04	
1900.0	0.26	1.09	
2150.0	0.31	1.11	









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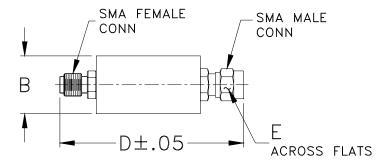
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

В D Ε 1.70 0.312 grams 0.43 10.92 43.18 7.92 18.0

Note: Please refer to case style drawing for details

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