Coaxial **High Pass Filter**

50Ω 20 to 1000 MHz

The Big Deal

- Low insertion loss
- High rejection
- Connectorized package





CASE STYLE: FF99

Product Overview

SHP-20+ is a High pass filter in a connectorized package covering 20 to 1000 MHz. This filter can be used in IF stage filtering of various multiband, 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 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 exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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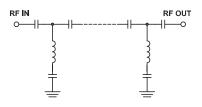
Features

- Wide band, 20 MHz to 1000 MHz
- High rejection
- Connectorized package

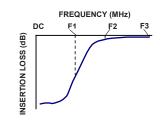
Applications

- IF stage filtering of various multiband
- Broadband Fiber Networks
- CATV
- Radio communications
- Receiver \ transmitters

Functional Schematic



Typical Frequency Response



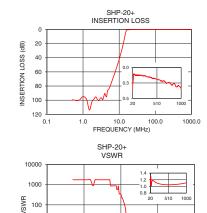


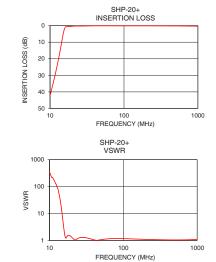
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5 W.			

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

Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
0.50	99.43	1737.18
5.25	83.83	868.59
6.75	68.78	868.59
8.25	55.90	579.06
10.25	40.28	289.53
11.00	34.78	217.15
12.50	23.87	108.58
13.25	18.30	64.35
14.25	10.70	22.00
15.00	5.31	7.28
15.50	2.61	3.38
16.00	1.11	1.78
16.75	0.57	1.24
20.00	0.37	1.32
22.00	0.23	1.05
44.00	0.10	1.01
165.00	0.13	1.12
445.00	0.18	1.05
740.00	0.24	1.06
1000.00	0.35	1.11





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1.0

10

0.1

Mini-Circuits

10.0

FREQUENCY (MHz)

100.0

1000.0

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CASE STYLE: FF99 Connectors Model SMA-M\F SHP-20+

Electrical Specifications at 25°C

			-				
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC-11	20	35	-	dB
Stop Banu	VSWR	DC-F1	DC-11	-	40	-	:1
Pass Band	Insertion Loss	F2-F3	20-1000	-	0.4	1	dB
	VSWR	F2-F3	20-1000	-	1.3	-	:1

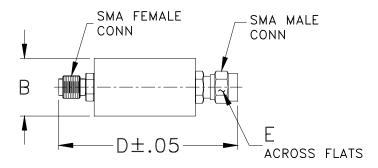


SHP-20+

Coaxial Connections

INPUT SMA-Male OUTPUT SMA-Female

Outline Drawing



Outline Dimensions (inch)

В	D	Е	wt
.67	1.98	.312	grams
17.02	50.29	7.92	42.0

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