Coaxial

High Pass Filter

SHP-48+

50Ω 48 to 2150 MHz

The Big Deal

- Low insertion loss
- High rejection
- Connectorized package

CASE STYLE: FF56

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.

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Connectors	Model
SMA-M\F	SHP-48+

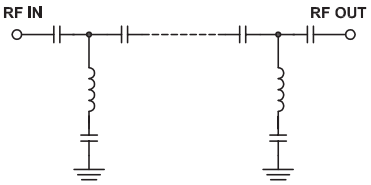
Features

- Wide band, 48 MHz to 2150 MHz
- High rejection
- Connectorized package

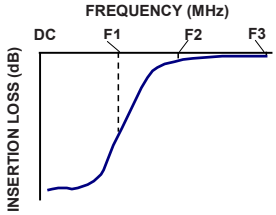
Applications

- SATCOM
- Broadband Fiber Networks
- CATV
- Radio communications
- Receivers \ transmitters

Functional Schematic



Typical Frequency Response



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

Electrical Specifications at 25°C

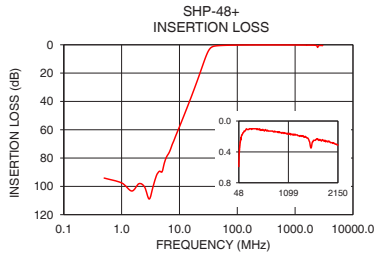
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC-18	20	31	-	dB
	VSWR	DC-F1	DC-18	-	40	-	:1
Pass Band	Insertion Loss	F2-F3	48-2150	-	0.6	1.2	dB
	VSWR	F2-F3	48-2150	-	1.15	-	:1

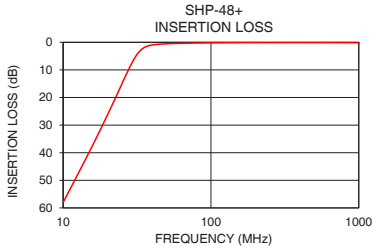
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W.

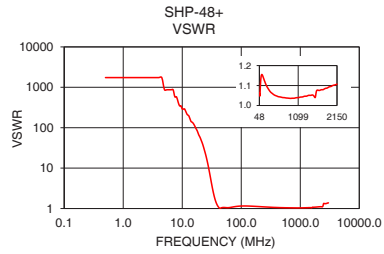
Permanent damage may occur if any of these limits are exceeded.

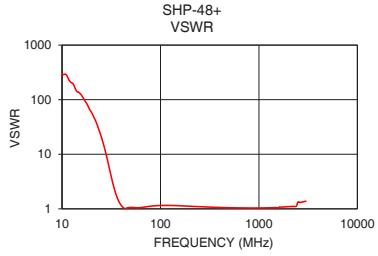
Typical Performance Data at 25°C

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









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.
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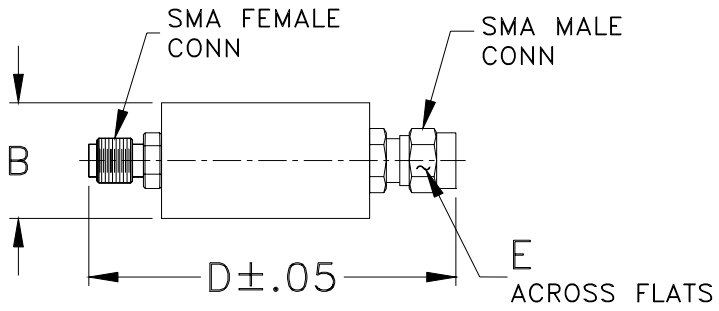
Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch / mm)

B	D	E	wt
0.43	1.70	0.312	grams
10.92	43.18	7.92	18.0

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