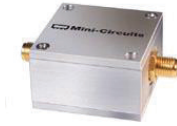


Coaxial High Pass Filter

ZFHP-0R12-S+

50Ω 0.12 to 1000 MHz



Generic photo used for illustration purposes only

CASE STYLE: H16

The Big Deal

- Low insertion loss
- High rejection
- Connectorized package

Product Overview

ZFHP-0R12-S+ is a High pass filter in a connectorized package. This low frequency cut-off high pass filter eliminates noise that feed into RF / base band circuits from low frequency sources.

Key Features

Feature	Advantages
Low insertion loss	Can be used in high performance applications.
Excellent low frequency rejection	Filters out low frequency noise from sources such as electric motors and generators. SMDS noise filtering and IF noise filtering.
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.

Notes

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Coaxial High Pass Filter

ZFHP-0R12-S+

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CASE STYLE: H16

Connectors Model
SMA-FEMALE ZFHP-0R12-S+
BRACKET (OPTION "B")

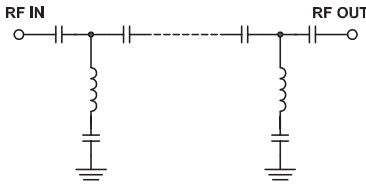
Features

- Wide band, 0.12 MHz to 1000 MHz
- High rejection
- Connectorized package

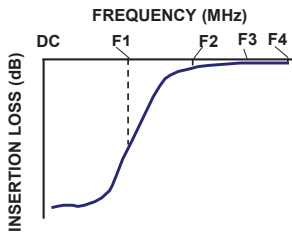
Applications

- Wire-line broad band access
- Fiber optic networks
- Receivers \ transmitters
- Radio navigation
- Fixed maritime mobile
- Electrical equipment noise elimination

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Stop Band	Rejection Loss	DC-F1	DC-0.050	25	40	-	dB
	VSWR	DC-F1	DC-0.050	-	54	-	:1
Pass Band	Insertion Loss	F2-F3	0.12-500	-	1.4	2.2	dB
		F3-F4	500-1000	-	2.2	-	
	VSWR	F2-F4	0.12-1000	-	1.5	-	:1

Maximum Ratings

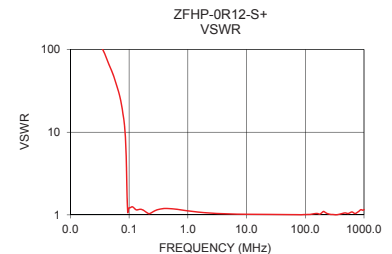
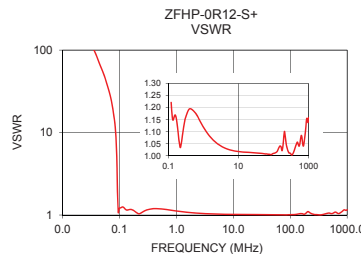
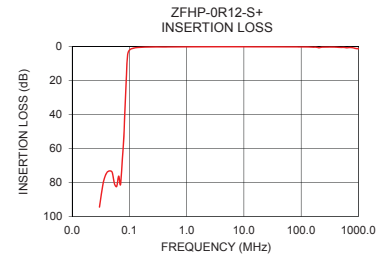
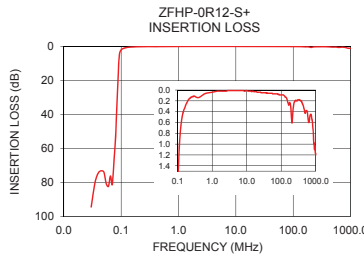
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	+5 dBm max.

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.030	94.42	124.09
0.050	73.93	56.04
0.082	44.09	13.70
0.085	31.66	10.37
0.087	24.11	8.01
0.090	12.63	4.02
0.092	6.54	1.92
0.096	2.96	1.09
0.100	2.00	1.22
0.120	0.75	1.22
0.600	0.07	1.18
1.000	0.04	1.12
10.000	0.01	1.02
50.000	0.06	1.01
100.000	0.09	1.01
250.000	0.20	1.03
500.000	0.42	1.05
800.000	0.58	1.09
900.000	1.01	1.16
1000.000	1.20	1.16

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



Notes

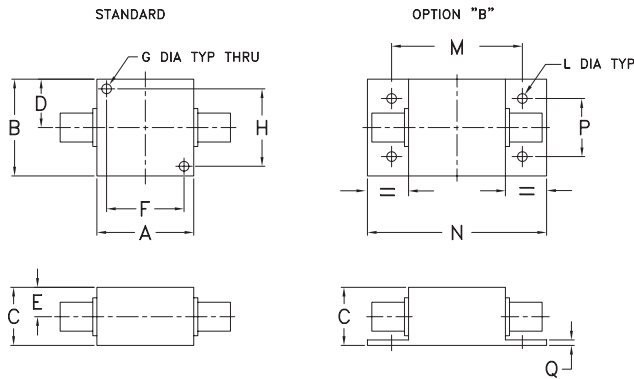
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Coaxial Connections

PORT - 1	SMA-Female
PORT - 2	SMA-Female

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.750	.06	grams
--	--	3.18	42.88	55.37	19.05	1.52	70.0

Note: Please refer to case style drawing for details

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