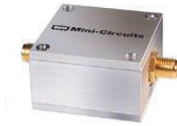


# Coaxial High Pass Filter

## ZFHP-1R2-S+

50Ω 1.2 to 800 MHz



Generic photo used for illustration purposes only

CASE STYLE: H16

### The Big Deal

- Low insertion loss
- High rejection
- Connectorized package

### Product Overview

ZFHP-1R2-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

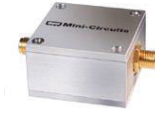
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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.  
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# Coaxial High Pass Filter

50Ω 1.2 to 800 MHz

## ZFHP-1R2-S+



Generic photo used for illustration purposes only

CASE STYLE: H16

Connectors Model  
SMA-FEMALE ZFHP-1R2-S+  
BRACKET (OPTION "B")

### Features

- Wide band, 1.2 MHz to 800 MHz
- High rejection
- Connectorized package

### Applications

- Wire-line broad band access
- Fiber optic networks
- Receivers \ transmitters
- Electrical equipment noise elimination

### Electrical Specifications at 25°C

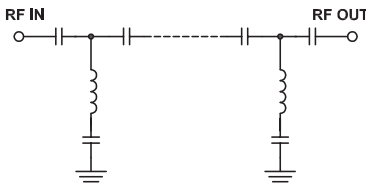
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Stop Band	Rejection Loss	DC-F1	DC-0.5	20	40	-	dB
	VSWR	DC-F1	DC-0.5	-	158	-	:1
Pass Band	Insertion Loss	F2-F3	1.2-800	-	0.8	2	dB
	VSWR	F2-F3	1.2-800	-	1.5	-	:1

### 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.

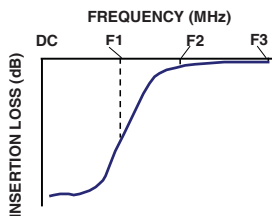
### Functional Schematic



### Typical Performance Data at 25°C

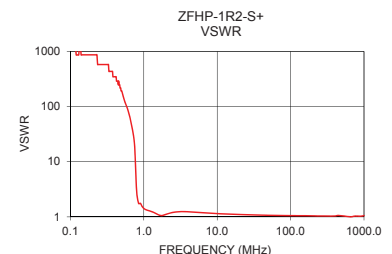
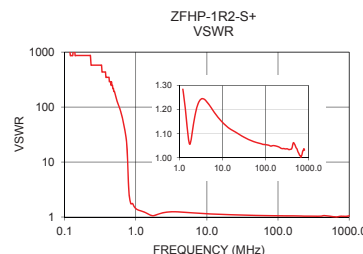
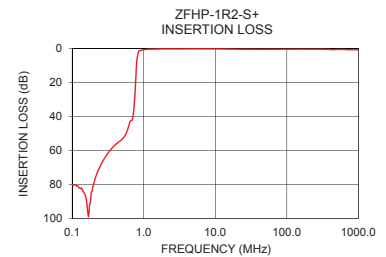
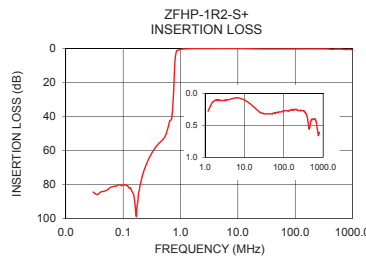
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.030	84.50	1737.18
0.250	68.73	579.06
0.500	53.36	193.02
0.600	47.28	91.43
0.700	41.48	38.61
0.750	28.71	19.54
0.800	7.51	2.84
0.850	1.53	1.76
0.900	1.10	1.76
0.950	0.74	1.54
1.000	0.55	1.43
1.200	0.28	1.29
1.500	0.15	1.13
5.000	0.08	1.22
50.000	0.32	1.07
250.000	0.27	1.04
500.000	0.42	1.05
600.000	0.40	1.02
700.000	0.54	1.01
800.000	0.61	1.03

### Typical Frequency Response



**+RoHS Compliant**

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



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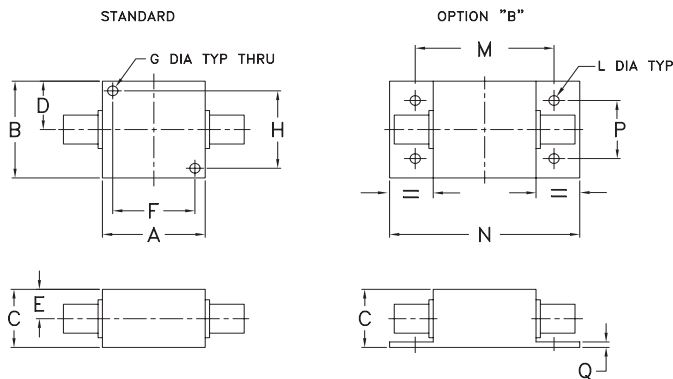
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REV/B  
M171494  
ZFHP-1R2-S+  
EDU1025  
URJ  
200526  
Page 2 of 3

## 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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