

# Coaxial High Pass Filter

## ZFHP-3800+

50Ω      3800 to 6000 MHz

### The Big Deal

- Low insertion loss
- Good rejection
- Connectorized package



CASE STYLE: H16

### Product Overview

ZFHP-3800+ is a High pass filter in a fabricated using connectorized package. This filter offers low insertion loss and good rejection. This will find its applications in transmitter and receivers.

### 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 till 3GHz.
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.  
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## ZFHP-3800+

50Ω 3800 to 6000 MHz



CASE STYLE: H16

Connectors Model  
SMA-M / F ZFHP-3800-S+  
BRACKET (OPTION "B")

### Features

- Wide band, 3800 MHz to 6000 MHz
- Low insertion loss
- Connectorized package

### Applications

- Sub-harmonic rejection
- Transmitter \ receiver
- Lab use

### Electrical Specifications at 25°C

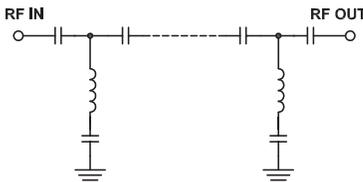
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Stop Band	Rejection Loss	DC-F1	10-3170	20	27.3	-	dB
	VSWR	DC-F1	10-3170	-	20	-	:1
Pass Band	Insertion Loss	F2-F3	3800-6000	-	1.0	2	dB
	VSWR	F2-F3	3800-6000	-	1.5	2.5	:1

### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	2W max.

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

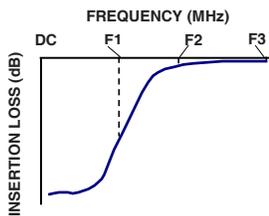
### Functional Schematic



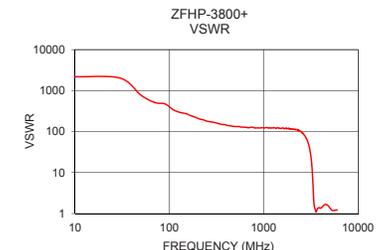
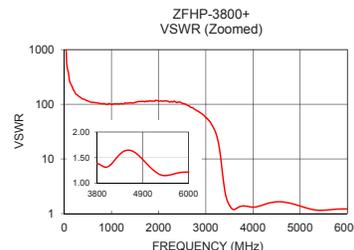
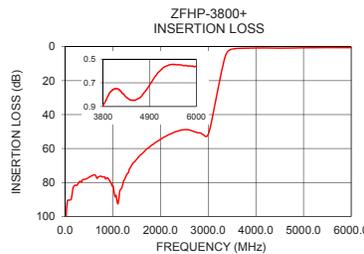
### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.0	105.44	2184.20
450.0	77.87	136.92
550.0	76.20	133.47
1230.0	78.93	123.66
1450.0	68.10	120.30
1910.0	56.12	115.68
2510.0	48.88	96.18
2790.0	50.77	72.36
3150.0	33.01	27.15
3170.0	30.16	24.42
3240.0	20.34	14.97
3300.0	12.25	7.84
3305.0	11.61	7.33
3400.0	3.20	1.96
3435.0	2.16	1.55
3625.0	0.96	1.13
3800.0	0.84	1.38
3950.0	0.74	1.37
5000.0	0.61	1.40
6000.0	0.51	1.22

### Typical Frequency Response



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



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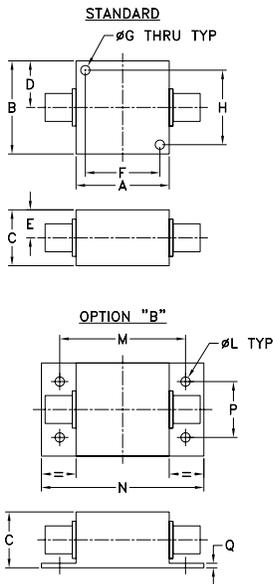
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ZFHP-3800+  
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## Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

## Outline Drawing



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

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

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