Coaxial

High Pass Filter

ZFHP-3800-S+

50Ω 3800 to 6000 MHz

Generic photo used for illustration purposes only

CASE STYLE: H16

The Big Deal

- Low insertion loss
- Good rejection
- Connectorized package

Product Overview

ZFHP-3800-S+ 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.

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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

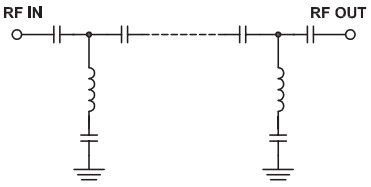
Electrical Specifications at 25°C

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

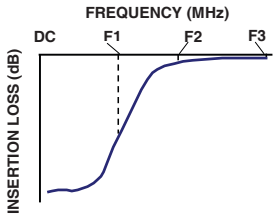
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	2W max.

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

Functional Schematic



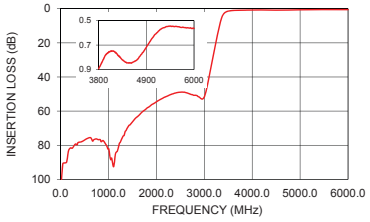
Typical Frequency Response



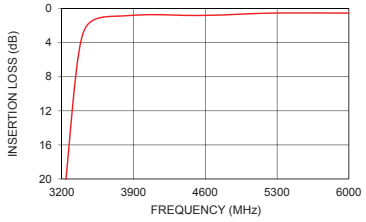
Typical Performance Data at 25°C

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

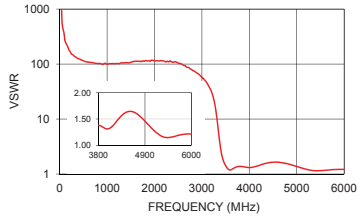
ZFHP-3800-S+
INSERTION LOSS



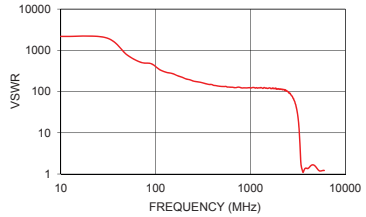
ZFHP-3800-S+
INSERTION LOSS



ZFHP-3800-S+
VSWR (Zoomed)



ZFHP-3800-S+
VSWR



+RoHS Compliant

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

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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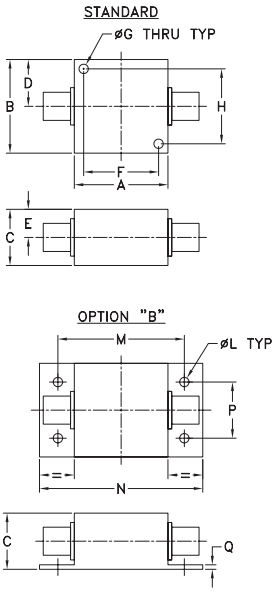
Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch / 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