

High Pass Filter

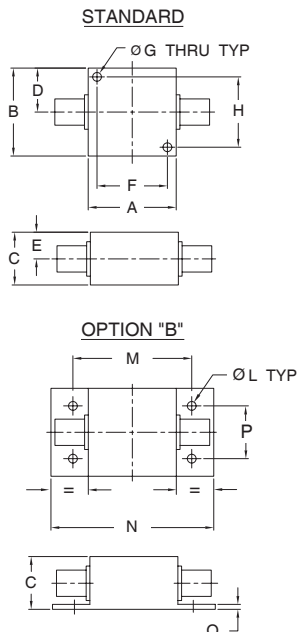
50Ω 2500 to 6800 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
1.25	1.25	.75	.63	.38	1.000	.125
31.75	31.75	19.05	16.00	9.65	25.40	3.18

H	L	M	N	P	Q	wt.
1.000	.125	1.688	2.18	.75	.06	grams
25.40	3.18	42.88	55.37	19.05	1.52	70

Note: Please refer to case style drawing for details

Features

- Wideband, 2500 to 6800 MHz
- Good VSWR, 1.3:1 Typ @ Passband
- High Rejection
- Rugged shielded case

Applications

- Military communications
- Harmonic rejection
- Receivers / Transmitters
- Lab Use

ZFHP-2100-S+



Generic photo used for illustration purposes only

CASE STYLE: H16

Connectors Model

SMA-FEMALE ZFHP-2100-S+
BRACKET (OPTION "B")

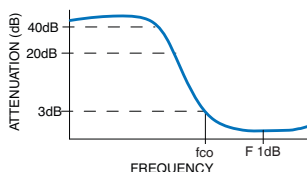
+RoHS Compliant

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

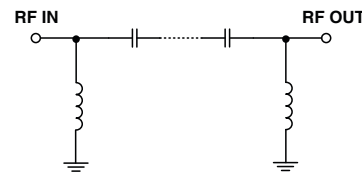
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)		f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(Loss > 40dB)	(Loss > 20dB)			Stopband Typ.	Passband Typ.
DC - 900	DC - 1925	2100	2500 - 6800	20	1.3

Typical Frequency Response

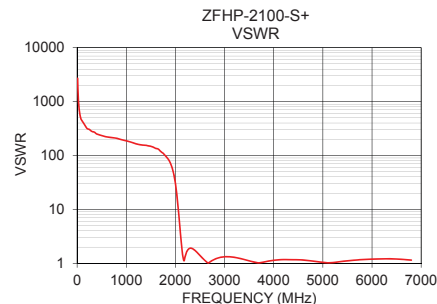
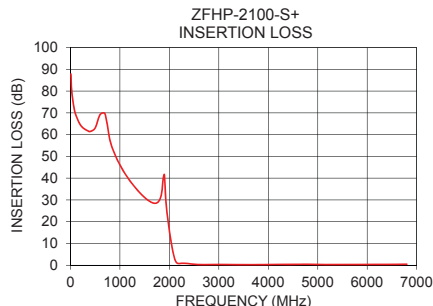


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.0	87.84	2697.13
50.0	75.72	632.17
100.0	69.65	440.38
200.0	64.50	318.68
400.0	61.46	250.19
900.0	50.86	196.78
1100.0	42.20	176.49
1925.0	30.98	62.26
1950.0	24.73	51.93
2025.0	12.23	20.12
2075.0	5.89	6.87
2100.0	3.49	3.78
2125.0	1.90	2.16
2300.0	0.90	1.91
2500.0	0.46	1.40
3000.0	0.34	1.32
4000.0	0.32	1.13
5000.0	0.35	1.04
6800.0	0.45	1.14



Notes

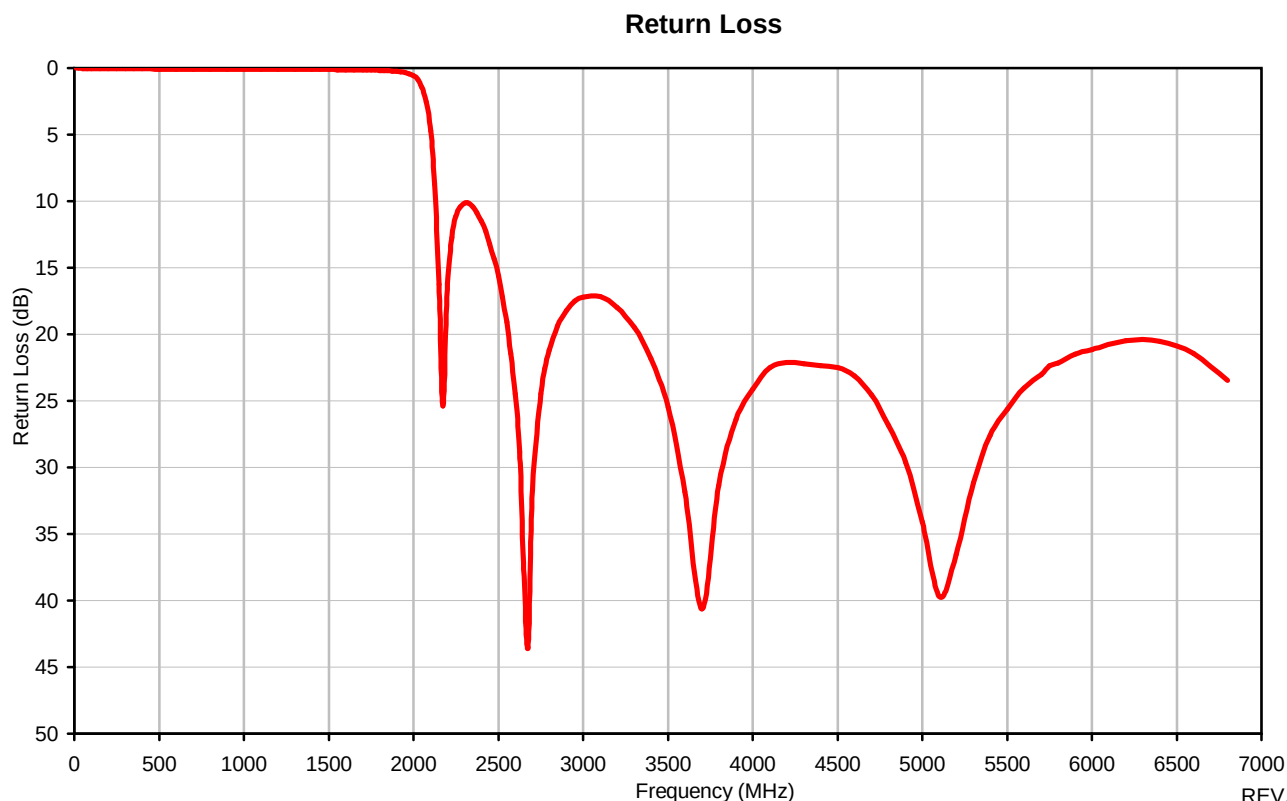
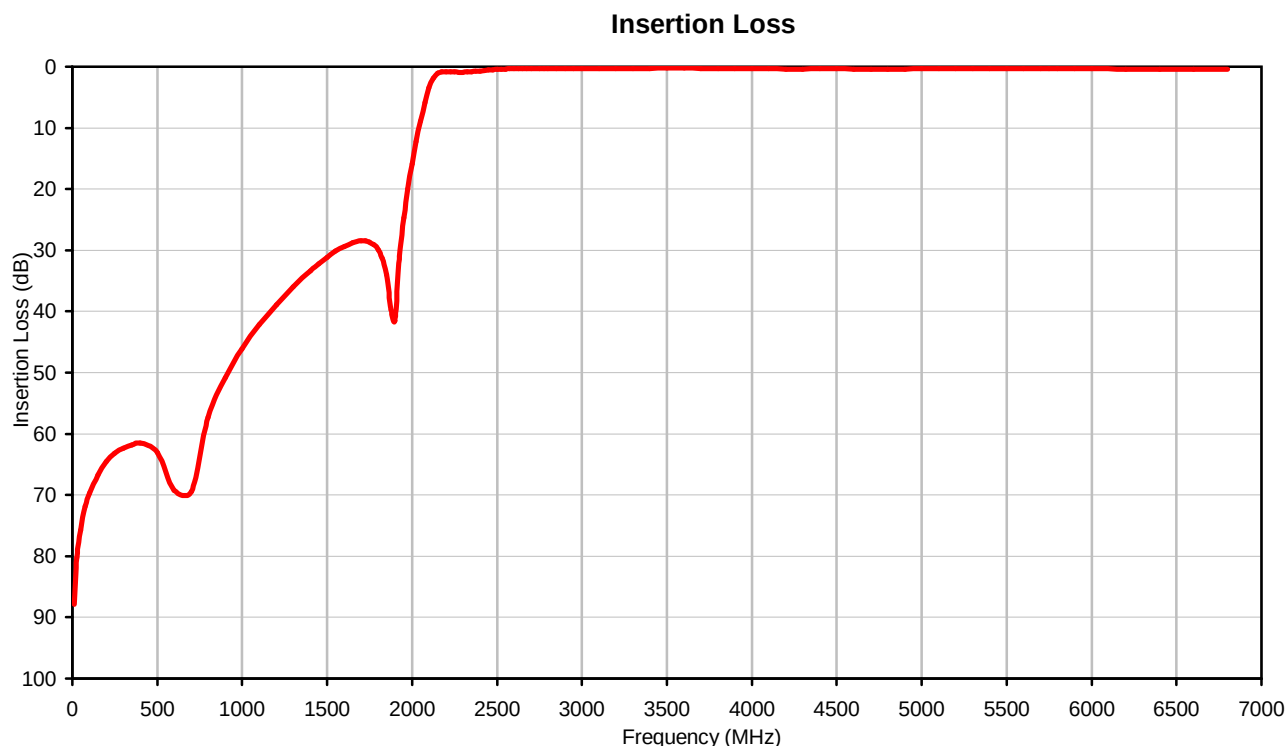
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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
10	87.84	0.01
50	75.72	0.03
100	69.65	0.04
200	64.50	0.05
400	61.46	0.07
900	50.86	0.09
1100	42.20	0.10
1925	30.98	0.28
1950	24.73	0.33
2025	12.23	0.86
2075	5.89	2.55
2100	3.49	4.71
2125	1.90	8.71
2300	0.90	10.13
2500	0.45	15.64
3000	0.34	17.19
4000	0.32	24.12
5000	0.35	34.09
6800	0.45	23.45

Typical Performance Curves



REV. X1

ZFHP-2100+

081012

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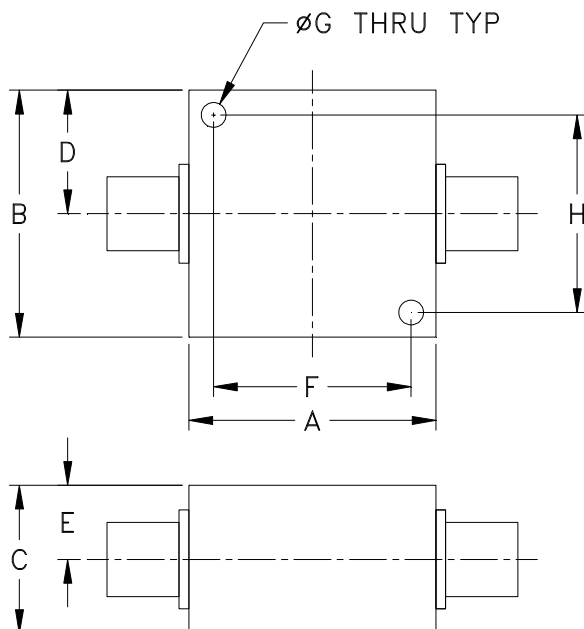
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



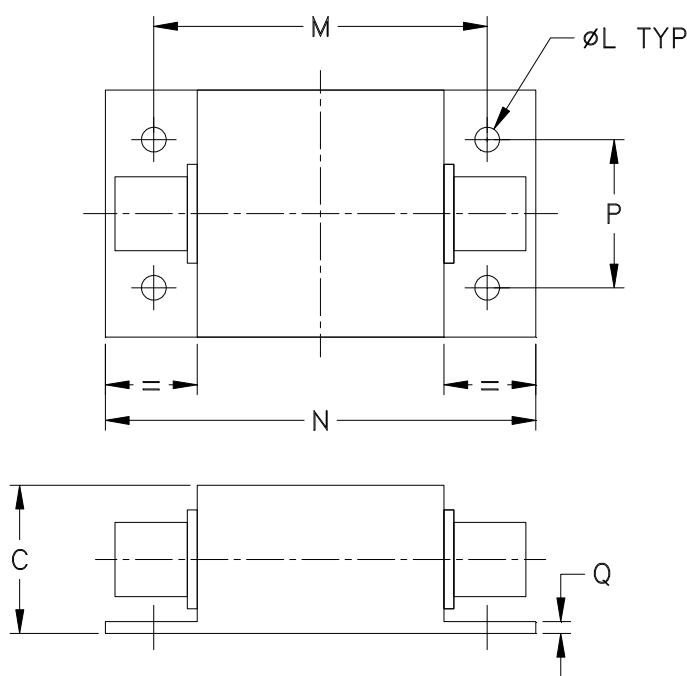
Outline Dimensions

H16

STANDARD



OPTION "B"



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
H16	1.25 (31.75)	1.25 (31.75)	.75 (19.05)	.63 (16.00)	.38 (9.65)	1.000 (25.40)	.125 (3.18)	1.000 (25.40)	--	--	.125 (3.18)	1.688 (42.88)	2.18 (55.37)

CASE#	P	Q	WT.GRAMS
H16	.750 (19.05)	.06 (1.52)	70

Dimensions are in inches (mm). Tolerances: 2PL. $\pm .03$; 3PL. $\pm .015$

Notes:

1. Case material: Aluminum alloy.
2. Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Mounting bracket available on request. Add suffix B to part number.
4. Bracket version, option B, dimension "C" changes from .75 to .94 inches when connectors are type N.
5. Refer to the individual model data sheet for the type of connectors available.



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