

# Bandpass Filter

# ZFBP-70HR-S+

50Ω 69 to 71 MHz



Generic photo used for illustration purposes only

CASE STYLE: H16

Connectors	Model
SMA-F	ZFBP-70HR-S+
BRACKET (OPTION "B")	

## Features

- Good VSWR, 1.2:1 Typ @ Passband
- Excellent Rejection in the Stopband
- Connectorized package

## Applications

- IF Signal Processing
- High Rejection Application
- Wire-Line Broadband Access
- Lab Use

## Electrical Specifications at 25°C

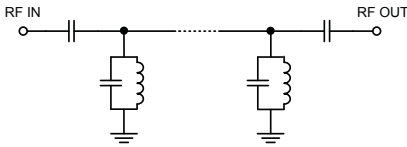
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	70	-	MHz
	Insertion Loss	F1-F2	69 - 71	5.5	7.0	dB
	VSWR	F1-F2	69 - 71	-	1.2	1.35
Stop Band, Lower	Insertion Loss	DC-F3	DC - 50	75	85	dB
		F3-F4	50 - 66	20	30	dB
	VSWR	DC-F4	DC - 66	-	18	-
Stop Band, Upper	Insertion Loss	F5-F6	75 - 100	20	30	dB
		F6-F7	100 - 700	60	70	dB
		F7-F8	700 - 1000	50	60	dB
	VSWR	F5-F8	75 - 1000	-	18	-

## Maximum Ratings

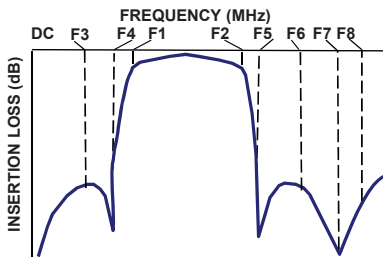
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W at 25°C

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

## Functional Schematic



## Typical Frequency Response

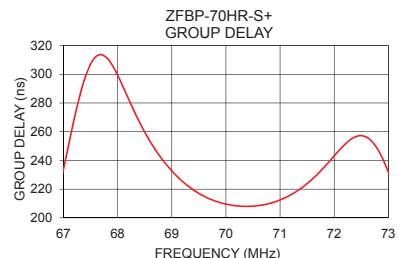
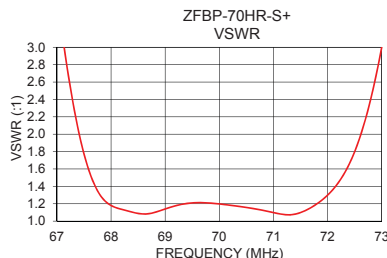
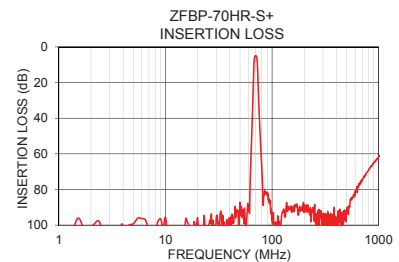
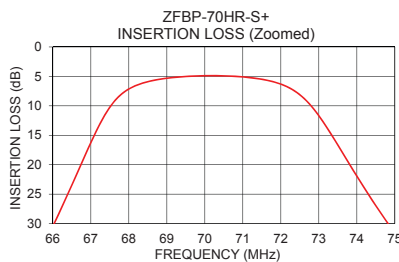


## Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1.0	102.69	17007.26	69.0	232.76
10.0	95.63	7623.21	69.1	228.80
30.0	94.91	2561.53	69.2	225.24
50.0	87.17	521.91	69.3	222.15
64.0	54.64	31.49	69.4	219.43
66.0	30.47	10.34	69.5	217.03
66.7	20.57	5.31	69.6	215.02
67.0	16.25	3.62	69.7	213.21
68.0	7.14	1.18	69.8	211.71
69.0	5.31	1.14	69.9	210.45
70.0	4.89	1.20	70.0	209.54
71.0	5.08	1.10	70.1	208.88
74.0	21.94	7.65	70.2	208.41
75.0	31.62	13.83	70.3	208.09
80.0	67.41	56.77	70.4	207.97
90.0	81.62	163.24	70.5	208.06
100.0	96.57	248.57	70.6	208.55
505.0	89.99	88.51	70.7	209.11
700.0	74.48	73.71	70.8	210.00
1000.0	61.62	62.49	71.0	212.43

### +RoHS Compliant

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



### Notes

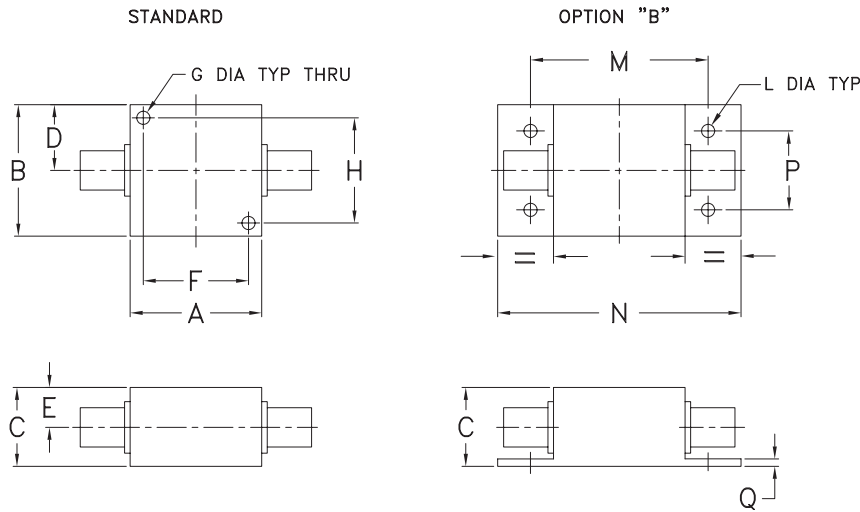
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## Coaxial Connections

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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