

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

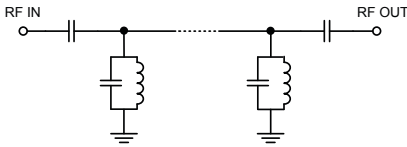
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	70	-	MHz
	Insertion Loss	F1-F2	69 - 71	5.5	7.0	dB
	VSWR	F1-F2	69 - 71	1.2	1.35	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 50	75	85	dB
		F3-F4	50 - 66	20	30	dB
	VSWR	DC-F4	DC - 66	-	18	:1
Stop Band, Upper	Insertion Loss	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	:1

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.

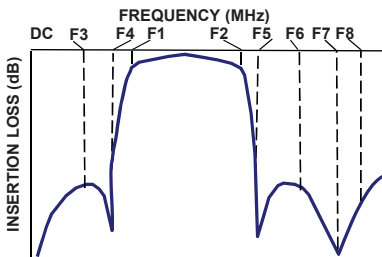
Functional Schematic



Typical Performance Data at 25°C

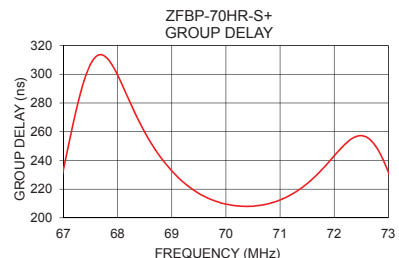
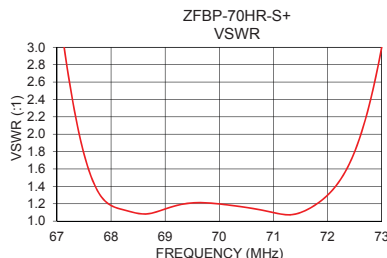
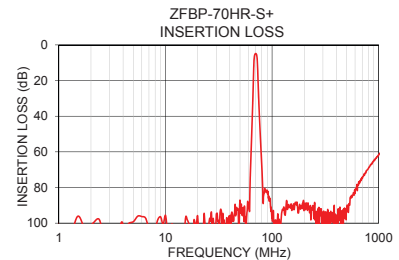
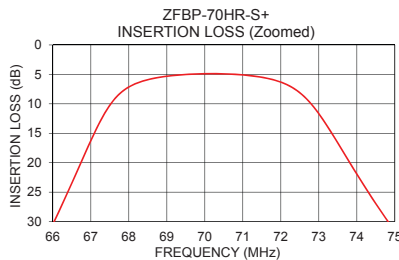
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1.0	102.69	17007.26	69.0	232.76
10.0	95.63	7623.21	69.1	228.80
30.0	94.91	2561.53	69.2	225.24
50.0	87.17	521.91	69.3	222.15
64.0	54.64	31.49	69.4	219.43
66.0	30.47	10.34	69.5	217.03
66.7	20.57	5.31	69.6	215.02
67.0	16.25	3.62	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

Typical Frequency Response



+RoHS Compliant

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



Notes

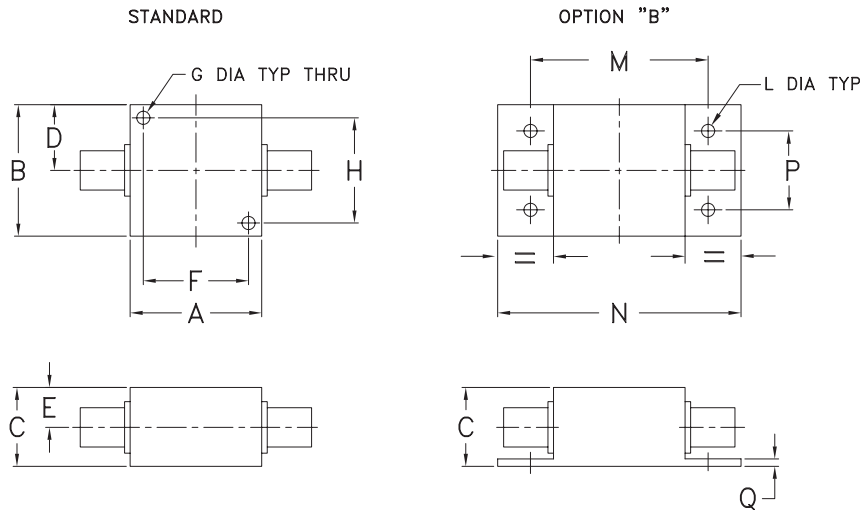
- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial Connections

PORT - 1	SMA-FEMALE
PORT - 2	SMA-FEMALE

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}$ / 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

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.
- 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.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp