

Coaxial Bandpass Filter

ZFBP-1100-75+

75Ω 950 to 1250 MHz

The Big Deal

- Low insertion loss of typ. 0.8 dB at center frequency
- Stopband up to 3 GHz
- Excellent temperature stability
- Connectorized package



Generic photo used for illustration purposes only

CASE STYLE: H16

Product Overview

ZFBP-1100-75+ is a low loss bandpass filter in a connectorized package covering 950 to 1250 MHz. This offers lower pass band insertion loss and good rejection. It has repeatable performance across lots and consistent performance across temperature.

Key Features

Feature	Advantages
Low insertion loss	Lower insertion loss result in better SNR in receiver front end and better power delivery to antenna in transmitter.
Good VSWR, 1.3:1 typical in passband	This model has very good return loss for this bandwidth and provides good interface when used with other devices
Excellent stopband rejection	Spurious rejection and avoids using additional filters.
Connectorized package	The connectorized packages can easily interface with other devices and well suited for test set-ups.
Temperature stability	Very minimal change in electrical performance across temperature makes these filters suitable for a wide range of operating conditions

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



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 Connectors Model
 F-MF ZFBP-1100-75+
 BRACKET (OPTION "B")

Features

- Low insertion loss, 0.8 dB typ.
- Good VSWR, 1.27:1 typ.
- Small connectorized package
- Broad stopband performance up to 3 GHz

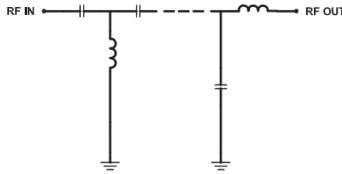
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1100	-	MHz
	3 dB Bandwidth	-	300	-	-	MHz
	Insertion Loss	F1	1100	0.8	1.5	dB
	VSWR	F1	1100	1.27	1.67	:1
Stop Band, Lower	Insertion Loss	DC-F2	DC - 750	20	33.8	dB
Stop Band, Upper	Insertion Loss	F3-F4	1450 - 3000	20	25.1	dB

Applications

- Cable / CATV & broadband fiber networks
- Radio navigation satellite
- Radio astronomy

Functional Schematic



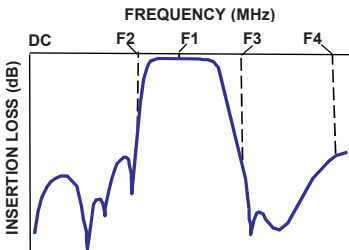
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W Max @25°C.

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

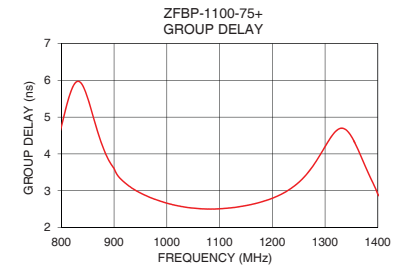
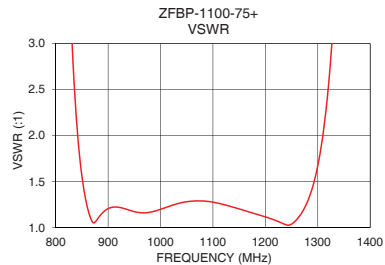
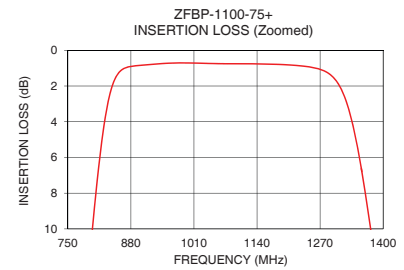
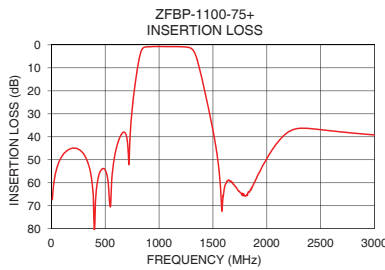
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
10	67.29	6340.07	950	2.94
50	53.91	3069.22	965	2.84
100	48.39	418.09	980	2.75
300	47.39	53.49	995	2.68
500	54.40	44.12	1010	2.62
750	28.23	26.61	1025	2.58
770	19.99	21.73	1040	2.54
832	3.03	2.91	1055	2.52
950	0.74	1.18	1070	2.51
1000	0.71	1.20	1085	2.50
1100	0.76	1.28	1100	2.51
1200	0.81	1.12	1115	2.53
1250	0.94	1.04	1130	2.55
1326	3.03	2.92	1145	2.58
1424	20.16	23.30	1160	2.62
1450	25.70	27.44	1175	2.68
1470	30.09	29.98	1190	2.75
2000	49.42	102.30	1210	2.86
2500	36.91	78.50	1230	3.01
3000	39.20	35.04	1250	3.23

Typical Frequency Response



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



Notes

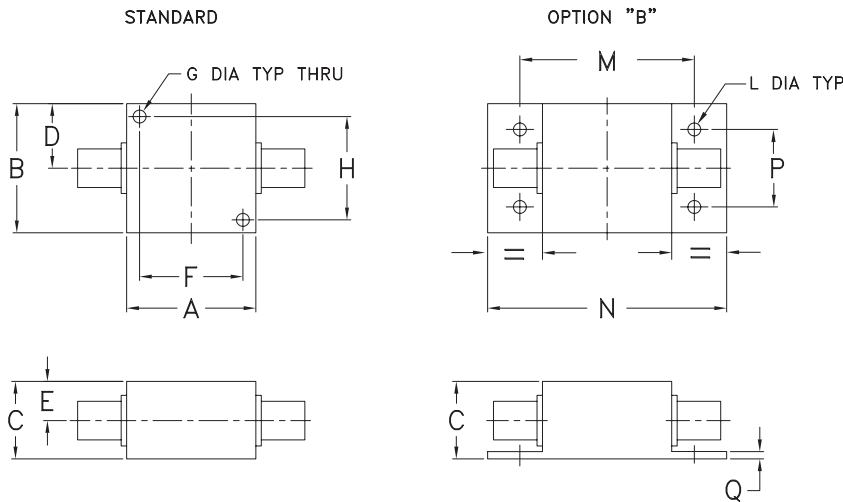
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Coaxial Connections

PORT - 1	F-MALE
PORT - 2	F-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

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