Bandpass Filter

ZX75BP-B70+

 50Ω 52 to 88 MHz

The Big Deal

- Low insertion loss of typical 1dB
- · Good Matching and good out of band rejection
- Connectorized package



CASE STYLE: HY1239

Product Overview

ZX75BP-B70+ is a low loss bandpass filter in a rugged connectorized package covering 52 to 88 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 matching and good out of band rejection	This filter has good matching, which enables maximum power transform and better out of band rejection results in wide spur free band.		
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.		

Notes
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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.

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Bandpass Filter

 50Ω 52 to 88 MHz

ZX75BP-B70+



CASE STYLE: HY1239 Connectors Model

SMA-F ZX75BP-B70-S+

Electrical Specifications at 25°C

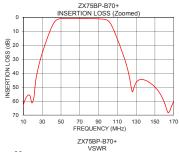
Parar	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	70	-	MHz
Pass Band	nd Insertion Loss		52-88	-	1.0	1.6	dB
	VSWR	F1-F2	52-88	-	1.24	1.5	:1
	Insertion Loss	DC-F3	1-11	50	60	-	dB
Stop Band, Lower		F3-F4	11-29	25	27	-	dB
	VSWR	DC-F4	1 - 29	-	20	-	:1
		F5-F6	118-200	20	29	-	dB
Stop Band, Upper	Insertion Loss	F6-F7	200-2500	40	50	-	dB
Stop Ballu, Oppel	op Ballu, Oppel	F7-F8	2500-4000	25	37	-	dB
	VSWR		118-4000	-	20	-	:1

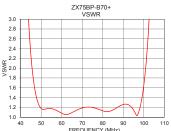
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W Max.

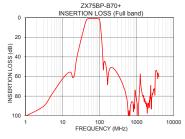
Permanent damage may occur if any of these limits are exceeded.

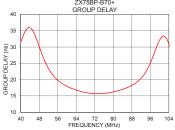
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	100.51	98591.26	52.0	23.32
11	60.48	2753.10	54.0	21.25
27	32.73	167.96	56.0	19.78
29	27.84	126.10	58.0	18.72
31	23.46	88.40	60.0	17.91
33	19.41	60.24	62.0	17.28
38	10.23	17.33	64.0	16.76
43	3.32	3.77	66.0	16.35
52	0.76	1.16	68.0	16.03
70	0.67	1.19	70.0	15.82
88	0.93	1.22	72.0	15.70
102	3.68	2.62	74.0	15.69
105	7.33	5.47	76.0	15.78
110	15.57	13.02	78.0	15.97
113	20.87	17.14	80.0	16.25
118	30.42	22.05	82.0	16.61
200	50.95	37.08	84.0	17.04
1500	80.79	47.35	86.0	17.57
2500	92.52	20.01	87.0	17.87
4000	60.26	16.31	88.0	18.24









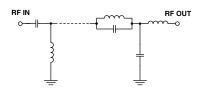
Features

- · Low insertion loss of 1 dB typical
- · Good matching and good out of band rejection.
- · Connectorized package

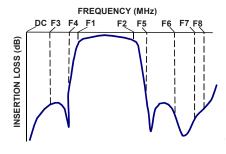
Applications

- · Wire-line broad band access
- · IF signal processing
- · Fixed satellite
- VHF Television

Functional Schematic



Typical Frequency Response



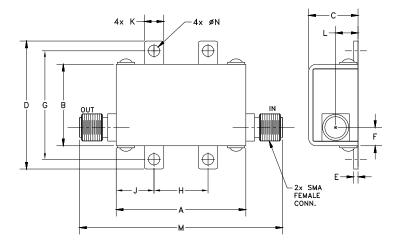
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch mm)

G	F	Е	D	С	В	Α
1.00	.17	.04	1.18	.46	.75	1.20
25.40	4.32	1.02	29.97	11.68	19.05	30.48
Wt.	N	М	L	K	J	Н
grams	.106	1.88	.21	.18	.35	.50
35.0	2.69	47.75	5.28	4.57	8.89	12.70

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