Bandpass Filter

ZX75BP-B70-S+

 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-S+ 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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Bandpass Filter

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ZX75BP-B70-S+



CASE STYLE: HY1239 Connectors Model

Тур.

70

1.0

1.24

60

27

20

29

50

37

20

50

25

20

40

25

Max.

1.6

1.5

Unit

 MHz

dΒ

:1

dB

dB

:1

dB

dB

dΒ

:1

ZX75BP-B70-S+

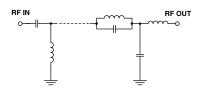
Features

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

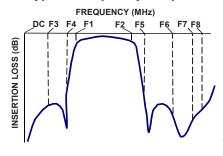
Applications

- · 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

F5-F6 Insertion Loss F6-F7 Stop Band, Upper F7-F8 VSWR F5-F8

Center Frequency

Insertion Loss

Insertion Loss

VSWR

VSWR

Parameter

Stop Band, Lower

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.					

F1-F2

DC-F3

F3-F4

DC-F4

Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

52-88

1-11

11-29

1 - 29

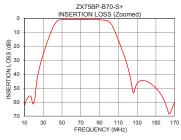
118-200

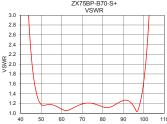
200-2500

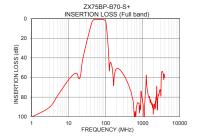
2500-4000

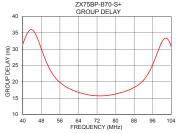
118-4000

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









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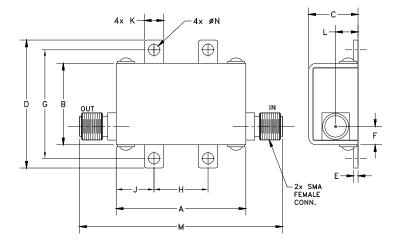
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Coaxial Connections

INPUT	SMA-FEMALE	
OUTPUT	SMA-FEMALE	

Outline Drawing



Outline Dimensions (inch mm)

G	F	E	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	M	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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