

Coaxial Bandpass Filter

ZX75BP-A70-S+

50Ω 62 to 78 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-A70-S+ is a low loss bandpass filter in a rugged connectorized package covering 62 to 78 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

- 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



Bandpass Filter

ZX75BP-A70-S+

50Ω 62 to 78 MHz



CASE STYLE: HY1239
 Connectors Model
SMA-F ZX75BP-A70-S+

Features

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

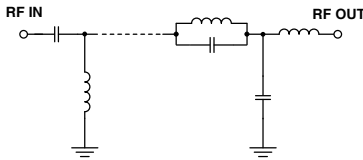
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	70	-	MHz
	Insertion Loss	F1-F2	62-78	-	1.0	1.6	dB
	VSWR	F1-F2	62-78	-	1.25	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	1-11	50	62	-	dB
		F3-F4	11-29	25	33	-	dB
	VSWR	DC-F4	1 - 29	-	20	-	:1
Stop Band, Upper	Insertion Loss	F5-F6	110-250	25	32	-	dB
		F6-F7	250-3000	40	57	-	dB
	VSWR	F7-F8	3000-3300	20	44	-	dB
		F5-F8	110-3300	-	20	-	:1

Applications

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

Functional Schematic



Maximum Ratings

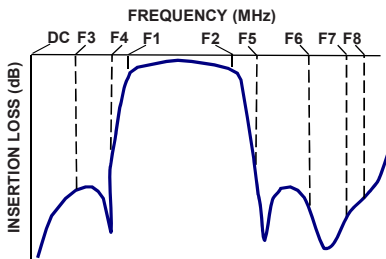
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W Max.

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

Typical Performance Data at 25°C

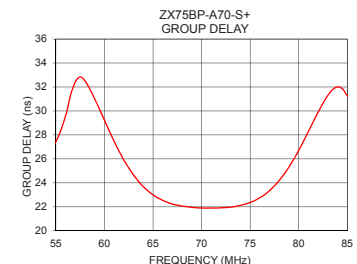
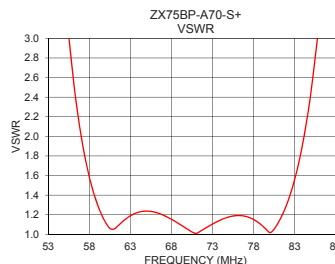
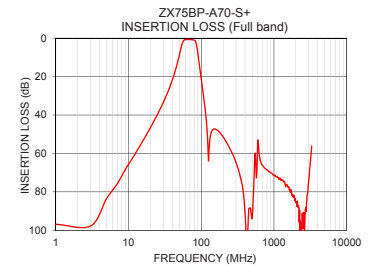
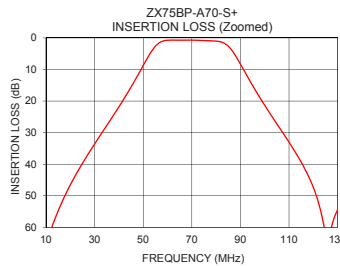
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	96.86	97.44	62.0	25.89
11	63.25	78.29	62.5	25.25
29	34.79	61.95	63.0	24.65
33	30.07	59.96	63.5	24.12
41	20.63	51.22	64.0	23.69
49	10.13	19.99	66.0	22.54
53	4.75	6.63	67.0	22.23
55	2.64	3.53	68.0	22.07
62	0.70	1.13	69.0	21.96
70	0.71	1.05	70.0	21.91
78	0.93	1.15	71.0	21.90
86	3.46	3.19	72.0	21.92
90	8.28	8.33	73.0	21.98
99	20.13	22.91	75.0	22.37
108	30.68	31.40	75.5	22.54
110	33.04	32.71	76.0	22.77
250	57.76	101.86	76.5	23.02
1000	71.65	182.89	77.0	23.35
3000	74.61	61.30	77.5	23.75
3300	56.25	57.17	78.0	24.21

Typical Frequency Response



+RoHS Compliant

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



Notes

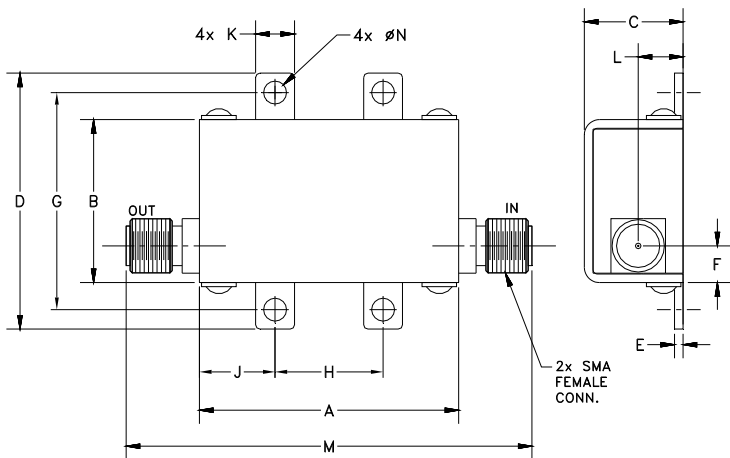
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Coaxial Connections

INPUT	SMA-FEMALE
OUTPUT	SMA-FEMALE

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

A	B	C	D	E	F	G
1.20	.75	.46	1.18	.04	.17	1.00
30.48	19.05	11.68	29.97	1.02	4.32	25.40
H	J	K	L	M	N	Wt.
.50	.35	.18	.21	1.88	.106	grams
12.70	8.89	4.57	5.28	47.75	2.69	35.0

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