

# 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.  
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## 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

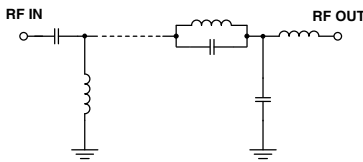
### Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	70	-	MHz
	Insertion Loss	F1-F2	62-78	-	1.0	dB
	VSWR	F1-F2	62-78	-	1.25	: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
		F7-F8	3000-3300	20	44	dB
	VSWR	F5-F8	110-3300	-	20	:1

### Applications

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

### Functional Schematic



### Maximum Ratings

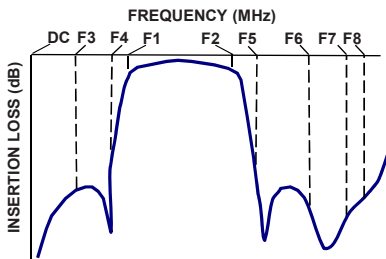
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W Max.

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

### Typical Performance Data at 25°C

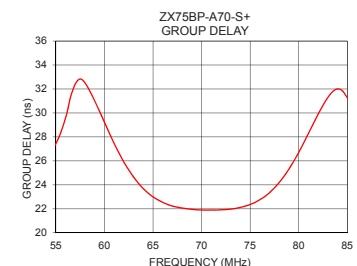
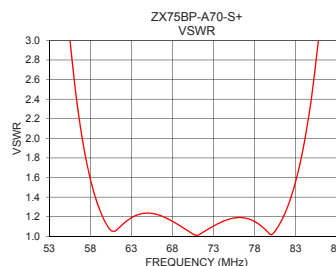
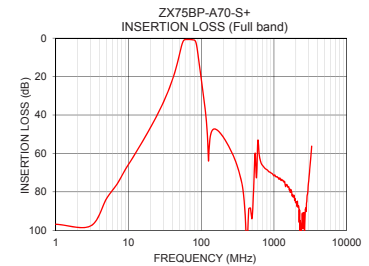
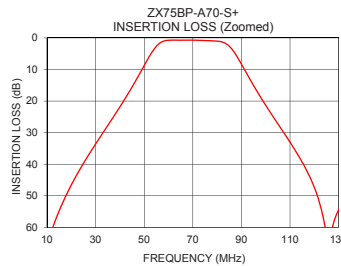
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	96.86	97.44	62.0	25.89
11	63.25	78.29	62.5	25.25
29	34.79	61.95	63.0	24.65
33	30.07	59.96	63.5	24.12
41	20.63	51.22	64.0	23.69
49	10.13	19.99	66.0	22.54
53	4.75	6.63	67.0	22.23
55	2.64	3.53	68.0	22.07
62	0.70	1.13	69.0	21.96
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



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