

Coaxial

Bandpass Filter

ZX75BP-750-S+

50Ω 600 to 900 MHz

The Big Deal

- High rejection
- Good VSWR
- Fast roll-off
- Wide stop band
- Connectorized package



Generic photo used for illustration purposes only
CASE STYLE: HY1239

Product Overview

ZX75BP-750-S+ is a band pass filter built in a connectorized package. Covering 600-900 MHz bandwidth, this offers good matching in the passband and high rejection in the stop band. Its wide stopband rejection will be suitable for applications which need far-frequency attenuation.

Key Features

Feature	Advantages
Good VSWR	Provides good matching when cascaded with other devices
Fast roll-off	Helps in better adjacent channel rejection
Wide stop band	Rejects harmonics for a wide range of frequency
Connectorized package	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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Bandpass Filter

50Ω 600 to 900 MHz

ZX75BP-750-S+



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Features

- Wideband rejection
- High selectivity
- Good VSWR
- Connectorized package

CASE STYLE: HY1239
Connectors Model
SMA-FV ZX75BP-750-S+

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	750	-	MHz
	Insertion Loss	F1-F2	600 - 900	-	1.7	2.5	dB
	VSWR	F1-F2	600 - 900	-	1.3	1.6	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 100	50	55	-	dB
		F3-F4	100 - 500	25	30	-	dB
	VSWR	DC-F4	DC - 500	-	20	-	:1
Stop Band, Upper	Insertion Loss	F5-F6	1000 - 1400	30	40	-	dB
		F6-F7	1400 - 2500	60	70	-	dB
	VSWR	F7-F8	2500 - 4500	-	40	-	dB
		F8-F9	4500 - 6000	-	30	-	dB
		F5-F9	1000 - 6000	-	10	-	:1

Maximum Ratings

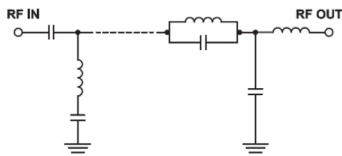
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	3 W max. @ 25°C

Permanent damage may occur if any of these limits are exceeded.
Max RF Power Input derate to 1 W at 85°C

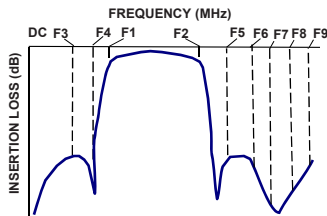
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	101.20	6114.89	600.0	5.47
100	60.78	2985.46	612.0	4.87
380	32.96	175.32	624.0	4.47
500	44.29	41.75	636.0	4.18
524	20.39	20.98	648.0	3.97
552	3.39	2.51	660.0	3.81
600	0.99	1.10	672.0	3.69
750	0.93	1.17	684.0	3.60
900	1.76	1.19	696.0	3.54
928	3.08	1.43	708.0	3.49
968	20.45	10.06	720.0	3.45
984	32.03	13.94	732.0	3.43
1000	47.30	17.26	744.0	3.43
1400	80.70	27.50	750.0	3.43
1500	71.63	25.18	768.0	3.47
2000	87.06	26.81	780.0	3.52
2500	76.00	27.00	792.0	3.58
4500	52.63	18.87	828.0	3.90
5200	59.80	10.02	852.0	4.27
6000	58.84	4.37	900.0	6.13

Functional Schematic

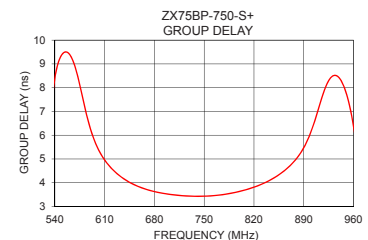
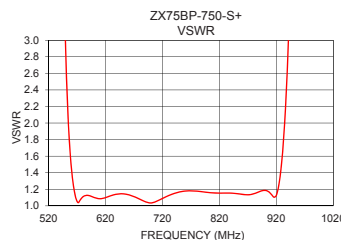
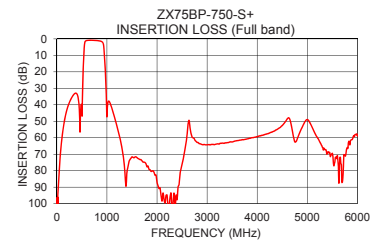
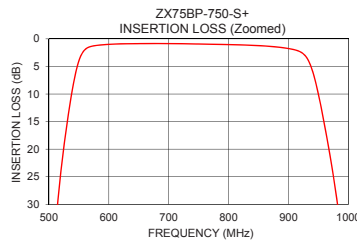


Typical Frequency Response



+RoHS Compliant

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



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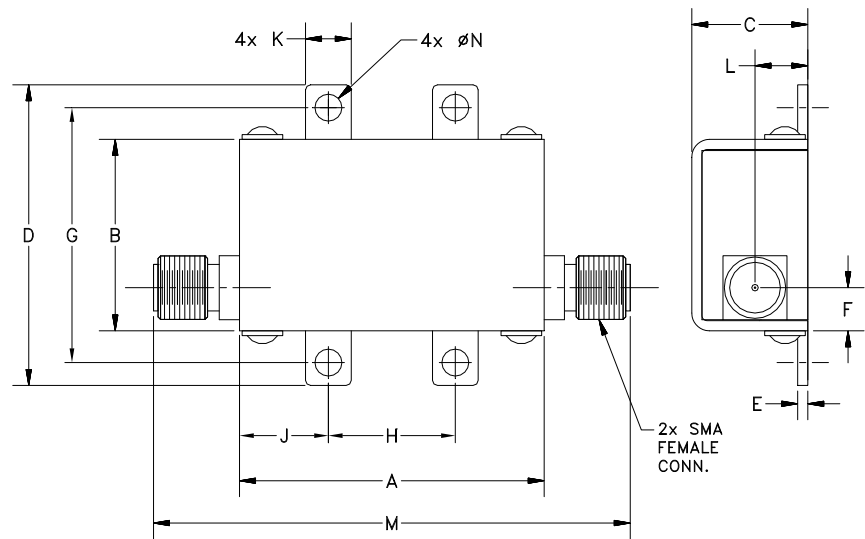
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Coaxial Connections

PORT - 1	SMA-FEMALE
PORT - 2	SMA-FEMALE

Outline Drawing



Outline Dimensions (inch 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

Note: Please refer to case style drawing for details

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