

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.
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



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50Ω 600 to 900 MHz



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

Features

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

Applications

- Auxiliary broadcasting
- Private and public land mobile
- Public safety services

Electrical Specifications at 25°C

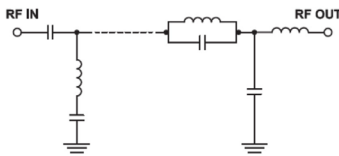
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Center Frequency	-	-	750	-	MHz	
	Insertion Loss	F1-F2	600 - 900	-	1.7	2.5	dB
	VSWR	F1-F2	600 - 900	-	1.3	1.6	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 100	50	55	-	dB
		F3-F4	100 - 500	25	30	-	dB
	VSWR	DC-F4	DC - 500	-	20	-	:1
Stop Band, 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
	VSWR	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

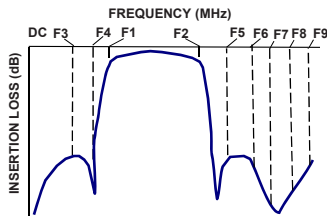
Functional Schematic



Typical Performance Data at 25°C

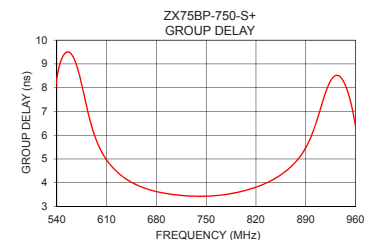
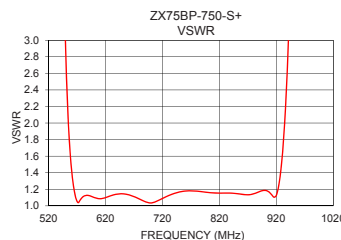
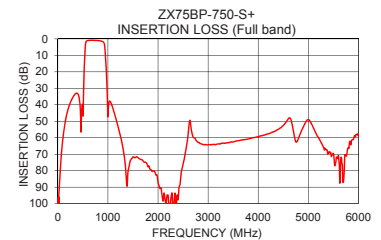
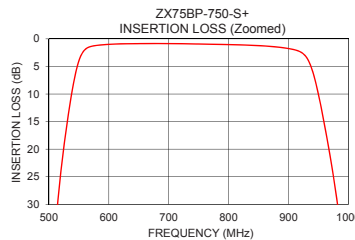
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	101.20	6114.89	600.0	5.47
100	60.78	2985.46	612.0	4.87
380	32.96	175.32	624.0	4.47
500	44.29	41.75	636.0	4.18
524	20.39	20.98	648.0	3.97
552	3.39	2.51	660.0	3.81
600	0.99	1.10	672.0	3.69
750	0.93	1.17	684.0	3.60
900	1.76	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

Typical Frequency Response



+RoHS Compliant

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



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