Coaxial **Bandpass Filter**

50Ω 600 to 900 MHz

The Big Deal

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

ZX75BP-750-S+



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.		

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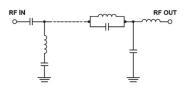
Features

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

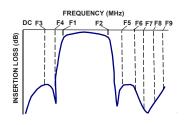
Applications

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

Functional Schematic



Typical Frequency Response





Electrical Specifications at 25°C							
Parar	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	750	-	MHz
Pass Band	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		F5-F6	1000 - 1400	30	40	-	dB
	Insertion Loss	F6-F7	1400 - 2500	60	70	-	dB
		F7-F8	2500 - 4500	-	40	-	dB
		F8-F9	4500 - 6000	-	30	-	dB
	VSWR	F5-F9	1000 - 6000	-	10	-	:1

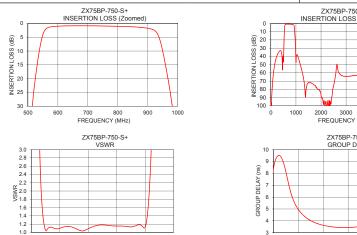
Maximum Batings

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 an	of these limits are exceeded.

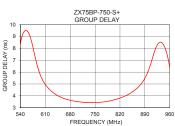
Max RF Power Input derate to 1 W at 85°C

Typical Performance Data at 25°C

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



ZX75BP-750-S+ INSERTION LOSS (Full band) 5000 6000 4000 FREQUENCY (MHz)



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820

FREQUENCY (MHz)

920

1020

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ZX75BP-750-S+



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Connectors

SMA-F\F

CASE STYLE: HY1239

Model

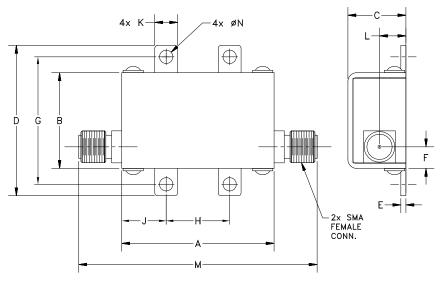
ZX75BP-750-S+

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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

А	В	С	D	Е	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
н	J	к	L	М	Ν	Wt.
	-			M 1.88		

Note: Please refer to case style drawing for details

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