Bandpass Filter

ZX75BP-960-S+

 50Ω 30 to 1890 MHz

The Big Deal

- · Low insertion loss of typ. 0.6dB at center frequency
- · Good Matching and good out of band rejection
- Stopband up to 8 GHz
- Excellent temperature stability
- Rugged construction to handle demanding environmental conditions.



Generic photo used for illustration purposes only CASE STYLE: HY1239

Product Overview

ZX75BP-960-S+ is a low loss bandpass filter in a rugged connectorized package covering 30 to 1890 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.
Wide stopband	Wide spur-free stopband results in better receiver sensitivity
Temperature stability	Very minimal change in electrical performance across temperature makes these filters suitable for a wide range of operating conditions
Rugged construction	These filter assemblies have been qualified over a wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycle

Features

· Wide passband

Bandpass Filter

50Ω 30 to 1890 MHz

ZX75BP-960-S+



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CASE STYLE: HY1239

Connectors Model
SMA-F ZX75BP-960-S+

Electrical Specifications at 25°C

Paran	neter	F# Frequency (MHz)		Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	960	-	MHz
Pass Band Ins	3 dB Bandwidth	-	-	1860	-	-	MHz
	Insertion Loss	F1	960	-	0.6	1	dB
	VSWR	F1	960	-	1.5	-	:1
Stop Band, Lower	Insertion Loss	DC-F2	DC - 25	45	50	-	dB
Cton Bond Unner	top Band, Upper Insertion Loss		2450 - 6000	45	50	-	dB
Stop Ballu, Opper			6000 - 8000	-	50	-	dB

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	1 W Max @25°C.			

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

Connectorized package
Wide stopband up to 8GHz
(center frequency x 8)

• Higher rejection, 50dB typ.

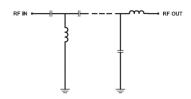
• Good VSWR, 1.5:1 typ.

• Low insertion loss, 0.6dB typ.

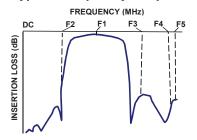
Applications

- All GPS bands
- UHF Military Radios
- LTE
- Mobile communication
- · Satellite communication

Functional Schematic



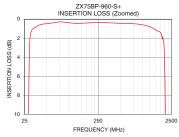
Typical Frequency Response

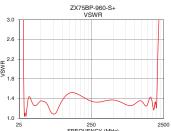


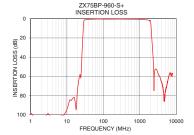
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

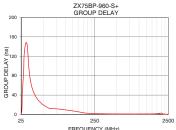
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1.0	97.64	59289.35	30.0	146.64
10.0	94.43	1339.38	150.0	5.41
20.0	70.33	152.40	270.0	1.56
25.0	51.00	43.90	390.0	1.18
26.4	30.15	25.89	510.0	1.06
27.2	20.48	16.42	630.0	1.01
29.0	3.12	1.76	750.0	1.00
30.0	1.56	1.09	870.0	1.00
500.0	0.45	1.37	890.0	1.00
960.0	0.57	1.27	960.0	1.01
1800.0	1.54	1.18	1050.0	1.02
1890.0	2.01	1.29	1140.0	1.03
1986.0	3.05	1.21	1240.0	1.06
2146.0	20.00	2.97	1320.0	1.09
2238.0	30.08	3.75	1410.0	1.12
2450.0	63.79	6.71	1500.0	1.17
4500.0	76.82	4.45	1620.0	1.28
6000.0	63.49	1.32	1700.0	1.39
7000.0	56.53	1.22	1800.0	1.56
8000.0	57.15	2.44	1890.0	1.84









Notes

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.

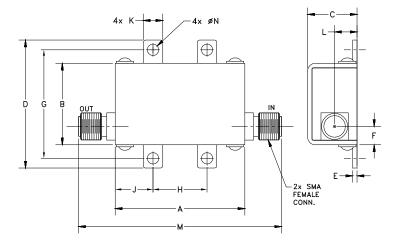
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

G	F	E	D	С	В	Α
1.00	.17	.04	1.18	.46	.75	1.20
25.40	4.32	1.02	29.97	11.68	19.05	30.48
Wt.						Н
grams	.106	1.88	.21	.18	.35	.50
35.0	2 69	47 75	5 28	4 57	8 89	12 70

Note: Please refer to case style drawing for details

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