Bandpass Filter

ZX75BP-1135-S+

 50Ω

900 to 1370 MHz

The Big Deal

- Low insertion loss of typical 0.6 dB
- · Good matching and good out of band rejection
- Connectorized package
- High power handling, 10 W



Generic photo used for illustration purposes only CASE STYLE: HY1239

Product Overview

ZX75BP-1135-S+ is a low loss band pass filter in a rugged connectorized package covering 900-1370 MHz. The high power handling capability of this filter finds it application in high power transmitters. The filter also offers lower passband insertion loss and good stopband rejection until 5600 MHz. In addition, 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.		

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CASE STYLE: HY1239 Connectors Model

ZX75BP-1135-S+ SMA-F\F

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-	-	-	1135	-	MHz
Pass Band	Insertion Loss	F1-F2	900 - 1370	-	0.6	1.2	dB
	VSWR	F1-F2	900 - 1370	-	1.35	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 500	40	45	-	dB
	VSWR	DC-F3	DC - 500	-	28	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	2000 - 2800	40	50	-	dB
		F5-F6	2800 - 5600	-	40	-	dB
	VSWR	F4-F6	2000 - 5600	-	28	-	:1

Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	10 W max. @ 25°C

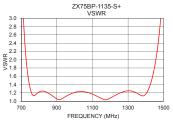
RF power derate linearly to 5 W @ 85°C

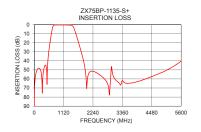
Permanent damage may occur if any of these limits are exceeded.

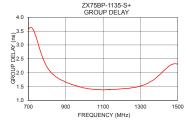
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	90.92	434.30	900	1.66
105	50.27	1737.18	930	1.58
380 500	47.04 50.91	347.44 157.93	960 990	1.52 1.46
550	30.79	115.81	1020	1.42
595	20.96	72.39	1050	1.40
700	3.19	4.43	1080	1.39
900	0.33	1.05	1110	1.38
1135	0.35	1.10	1135	1.39
1370	0.50	1.14	1170	1.40
1500	3.02	3.94	1200	1.42
1700	20.85	30.49	1230	1.43
1800	30.82	37.77	1260	1.46
2000	70.72	52.65	1290	1.50
2500	55.52	78.97	1320	1.56
2800	65.71	69.49	1330	1.59
3000	55.68	59.91	1340	1.62
4000	62.36	45.72	1350	1.66
5000	51.08	38.61	1360	1.70
5600	40.11	44.55	1370	1.74









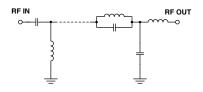
Features

- Low insertion loss of typical 0.6 dB
- · Good matching and good out of band rejection
- Connectorized package

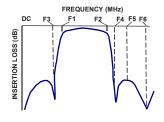
Applications

- Defence / Military
- L-Band applications
- · Radio astronomy
- · Wireless medical telemetry

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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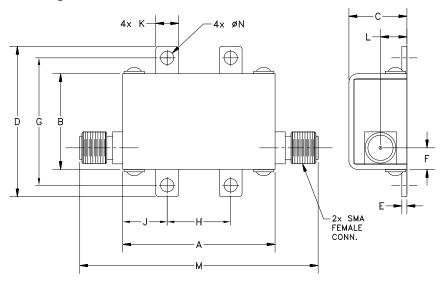
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

Α	В	С	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
		17				14/1
Н	J	K	L	М	Ν	Wt.
	-		_			Wt. grams

Note: Please refer to case style drawing for details

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