Bandpass Filter

ZFBP-400K-S+

 50Ω 0.35 to 0.45 MHz



Generic photo used for illustration purposes only CASE STYLE: H16

The Big Deal

- · Very low frequency bandpass filter
- Extended stopband all the way up to 200 MHz
- Connectorized package

Product Overview

ZFBP-400K-S+ is a 50Ω bandpass filter. This is built into a rugged connectorized package of size 1.25" x 1.25" x 0.75". This offers very good matching in passband and excellent stopband rejection. This is suitable for semiconductor processing equipment and other instrumentation applications for low frequency RF and signal processing.

Key Features

Feature	Advantages
Good passband insertion loss	Low insertion loss suitable for high performance application.
Sharp roll-off	Excellent near band rejection.
Extended stopband rejection	Spurious rejection and avoids using additional filters.

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Features

· Sharp roll-off

Bandpass Filter

 $50\Omega \ 0.35 \ \text{to} \ 0.45 \ \text{MHz}$

ZFBP-400K-S+



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Model Connectors SMA-FEMALE ZFBP-400K-S+ BRACKET (OPTION "B")

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	0.4	_	MHz
Pass Band	Insertion Loss	F1-F2	0.35 - 0.45	_	1.1	3.0	dB
	VSWR	F1-F2	0.35 - 0.45	_	1.5	2.0	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 0.18	20	33	_	dB
Stop Ballu, Lowel	VSWR	DC-F3	DC - 0.18	_	67	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	0.8 - 200	20	34	_	dB
Stop Ballu, Oppel	VSWR	F4-F5	0.8 - 200	_	19	_	:1

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

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

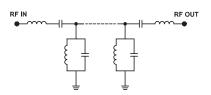
Applications · Harmonic rejection

· High Stopband rejection

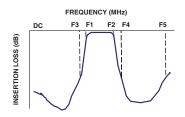
· Connectorized package

- Instrumentation
- · Industrial processing equipments
- · Lab use

Functional Schematic



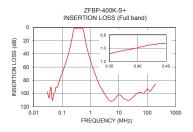
Typical Frequency Response

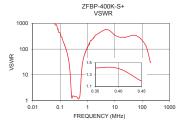


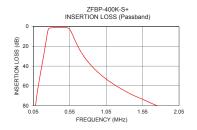
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

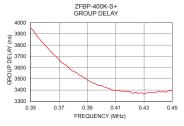
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.100	69.34	434.30	0.350	3952.77
0.180	34.59	69.49	0.352	3924.83
0.200	26.28	42.38	0.354	3886.64
0.225	15.16	16.72	0.356	3857.77
0.240	8.25	6.61	0.358	3825.18
0.255	3.22	2.10	0.400	3439.26
0.275	1.61	1.32	0.416	3390.83
0.350	1.09	1.41	0.420	3386.64
0.400	0.99	1.40	0.424	3378.61
0.450	0.93	1.19	0.426	3371.04
0.525	1.51	1.49	0.430	3364.52
0.560	3.96	3.59	0.432	3374.76
0.585	7.65	7.80	0.434	3375.23
0.625	14.37	18.90	0.436	3376.39
0.800	35.65	66.82	0.436	3376.39
1.200	60.56	173.72	0.438	3375.58
2.000	86.38	347.44	0.440	3390.13
50.000	98.50	347.44	0.442	3383.26
100.000	93.23	217.15	0.444	3386.29
200.000	85.40	29.46	0.450	3390.13









Notes
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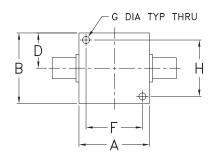
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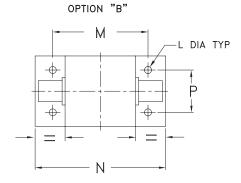
Coaxial Connections

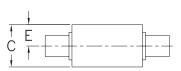
PORT - 1	SMA-FEMALE		
PORT - 2	SMA-FEMALE		

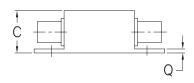
Outline Drawing

STANDARD









Outline Dimensions (inch)

1.25	B 1.25 31.75	.75	.63	.38	1.000	.125	1.000
J 	K			N 2.18			
				55.37			

Note: Please refer to case style drawing for details

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