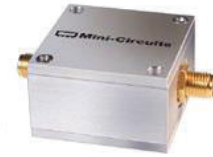


Coaxial Bandpass Filter

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.

Notes

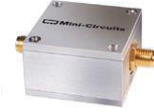
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Coaxial Bandpass Filter

50Ω 0.35 to 0.45 MHz

ZFBP-400K-S+



Generic photo used for illustration purposes only

CASE STYLE: H16

Connectors Model

SMA-FEMALE ZFBP-400K-S+

BRACKET (OPTION "B")

Features

- High Stopband rejection
- Sharp roll-off
- Connectorized package

Applications

- Harmonic rejection
- Instrumentation
- Industrial processing equipments
- Lab use

Electrical Specifications at 25°C

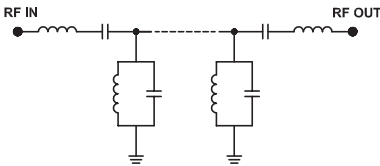
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	0.4	—	MHz
	Insertion Loss	F1-F2	0.35 - 0.45	1.1	3.0	dB
	VSWR	F1-F2	0.35 - 0.45	1.5	2.0	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 0.18	20	33	dB
	VSWR	DC-F3	DC - 0.18	—	67	:1
Stop Band, Upper	Insertion Loss	F4-F5	0.8 -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

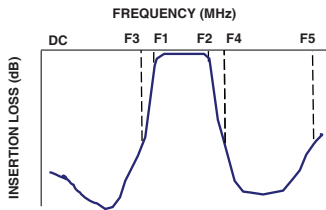
Functional Schematic



Typical Performance Data at 25°C

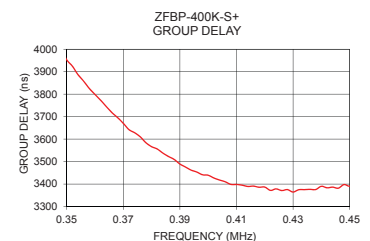
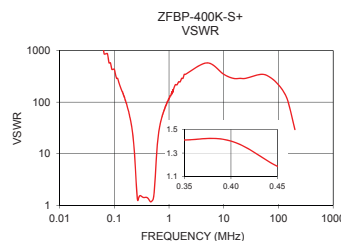
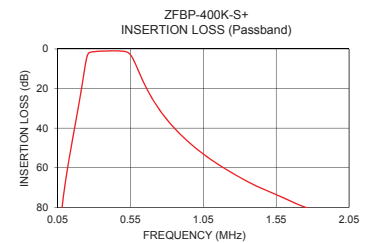
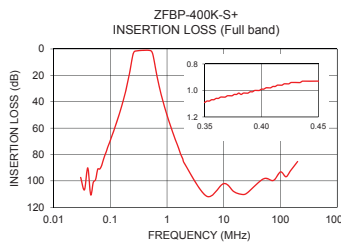
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.100	69.34	434.30	0.350	3952.77
0.180	34.59	69.49	0.352	3924.83
0.200	26.28	42.38	0.354	3886.64
0.225	15.16	16.72	0.356	3857.77
0.240	8.25	6.61	0.358	3825.18
0.255	3.22	2.10	0.400	3439.26
0.275	1.61	1.32	0.416	3390.83
0.350	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

Typical Frequency Response



+RoHS Compliant

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



Notes

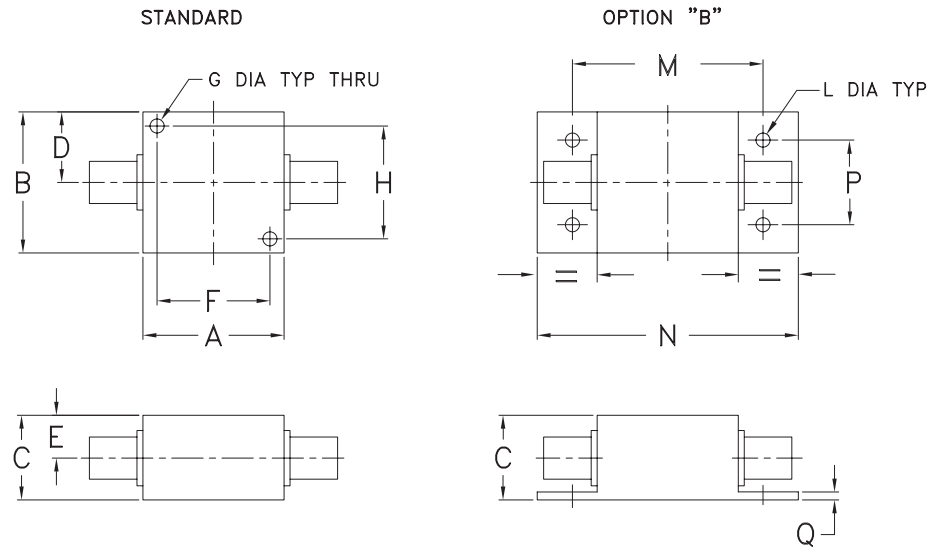
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.750	.06	grams
--	--	3.18	42.88	55.37	19.05	1.52	70.0

Note: Please refer to case style drawing for details

Notes

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