

Coaxial Bandpass Filter

VBFZ-4000+

50Ω 3500 to 4500 MHz

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W at 25°C

*Passband rating, derate linearly to 3W at 100°C ambient.

Features

- Good Rejection, 30dB up to 16GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unibody
- Protected by US Patent 6,943,646

Application

- Harmonic rejection
- Transmitters/receivers
- Lab use
- Test instrumentation



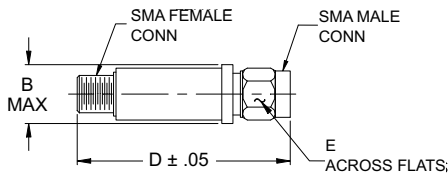
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-4000-S+	\$39.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Outline Drawing



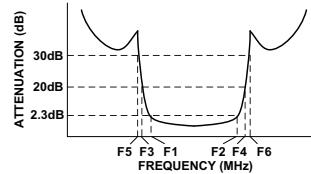
Outline Dimensions (inch/mm)

B	D	E	wt.
.410	1.91	.312	grams
10.41	48.51	7.92	11.8

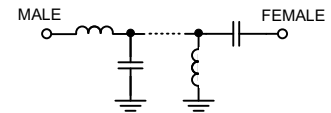
Band Pass Filter Electrical Specifications (T_{AMB} = 25°C)

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 1.8dB)	STOPBANDS (MHz)				VSWR (:1)	
			(Loss > 20dB)		(Loss 30dB) Typ.		Passband	Stopband
		F1 - F2	F3	F4	F5	F6	Max.	Typ.
VBFZ-4000+	4000	3500 - 4500	2550	5700	2570	5720 - 16000	1.6	20

Typical Frequency Response

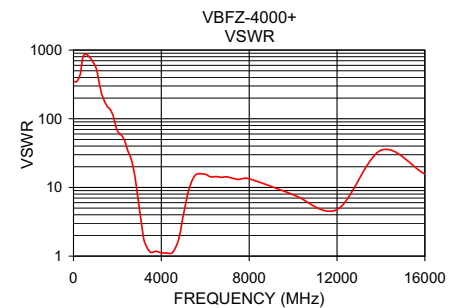
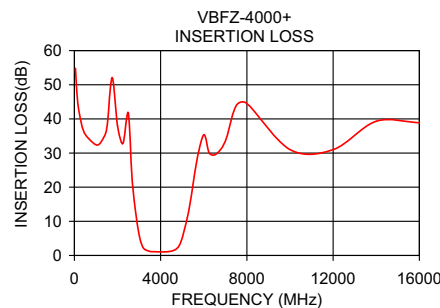


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	54.81	347.44
500	35.50	868.59
1500	37.06	157.93
2550	36.55	29.96
2570	33.60	28.03
2700	20.97	20.45
2850	12.09	11.31
3000	6.07	4.95
3100	3.61	2.85
3500	1.19	1.14
4000	1.05	1.12
4500	1.24	1.12
4900	3.41	2.59
5100	7.38	5.66
5400	16.54	12.61
5570	23.10	15.26
5700	29.95	15.96
5720	31.30	15.96
10000	31.02	7.87
16000	38.88	15.67



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RF/IF MICROWAVE COMPONENTS

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