

Coaxial Bandpass Filter

VBFZ-2000+

50Ω 1730 to 2270 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°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

Applications

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



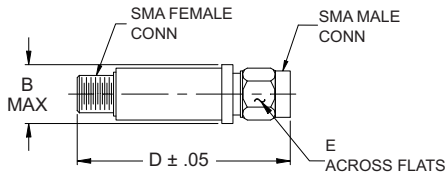
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-2000-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



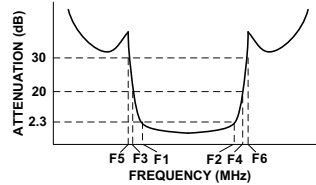
Outline Dimensions (inch mm)

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

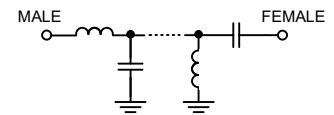
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 2.3dB)	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB)		(Loss 30dB Typ)		Passband		Stopband
	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
2000	1730 - 2270	1210	2960	1200	2960 - 16000	1.6	2.4	20

Typical Frequency Response

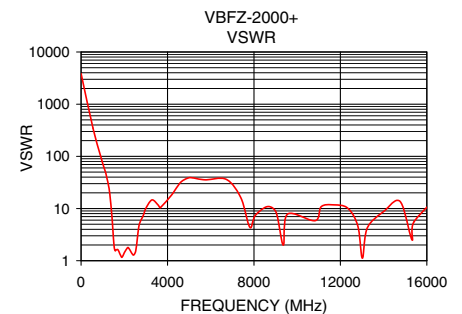
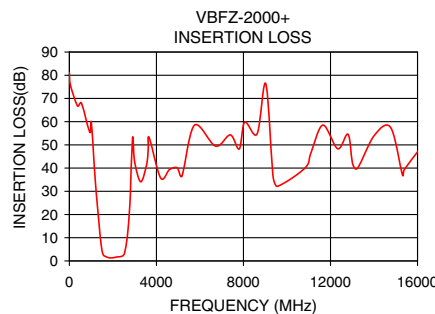


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	79.14	18637.82
250	68.15	1353.31
1200	33.44	38.13
1210	32.29	36.51
1360	16.33	14.94
1461	6.99	4.47
1530	3.28	1.87
1730	1.63	1.56
2000	1.37	1.42
2270	1.80	1.72
2556	3.93	1.89
2635	8.17	3.61
2720	16.45	5.44
2800	27.89	6.30
2850	37.66	6.86
2960	48.75	9.06
5000	39.36	40.30
10000	37.29	15.72
13000	42.80	1.31
16000	51.77	20.73



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IF/RF MICROWAVE COMPONENTS

REV. A
M117530
EDR-8449U
VBFZ-2000+
URJ/RAV
080610
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