

# Coaxial Bandpass Filter

## VBFZ-1400+

50Ω 1350 to 1450 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 6600GHz
- 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



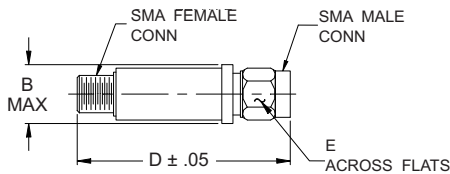
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-1400-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



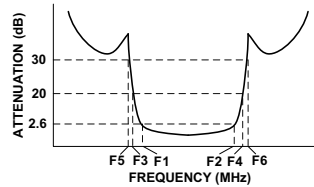
### Outline Dimensions (inch mm)

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

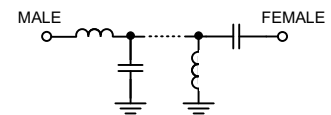
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 2.6dB)	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB)		(Loss 30dB Typ)		Passband		Stopband
	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
1400	1350 - 1450	890	1965	870	1965 - 6600	1.6	2.3	20

### Typical Frequency Response

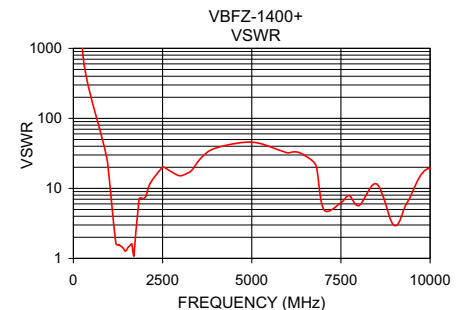
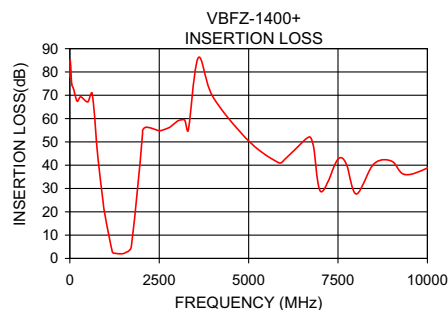


### Functional Schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	86.42	12105.11
250	68.43	729.08
870	31.80	39.48
890	29.20	35.32
990	17.27	17.76
1065	9.43	7.43
1132	4.55	2.89
1350	2.05	1.54
1400	1.97	1.38
1450	1.97	1.27
1690	3.82	1.11
1755	8.63	3.09
1812	16.96	6.22
1900	30.79	7.30
1940	37.12	7.18
1965	41.68	7.18
3000	58.86	15.09
5000	50.16	45.80
6600	53.10	26.65
10000	38.71	18.90



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IF/RF MICROWAVE COMPONENTS

REV. A  
M117530  
EDR-8447U  
VBFZ-1400+  
URJ/RAV  
080610  
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