

# Coaxial Bandpass Filter

## VBFZ-2340+

50Ω 2020 to 2660 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 8.5GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unbody
- Protected by US Patent 6,943,646

### Applications

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



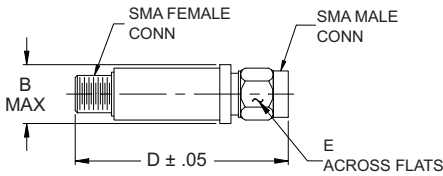
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-2340-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



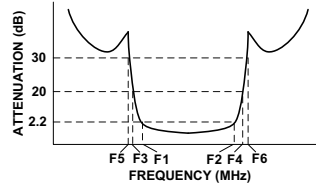
### Outline Dimensions (inch mm)

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

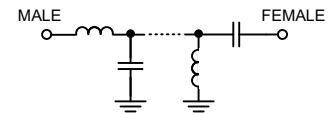
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2.2dB)	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB)		(Loss 30dB Typ)		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
2340	2020 - 2660	1450	3750	1400	3800 - 8500	1.5	2.4	20

### Typical Frequency Response

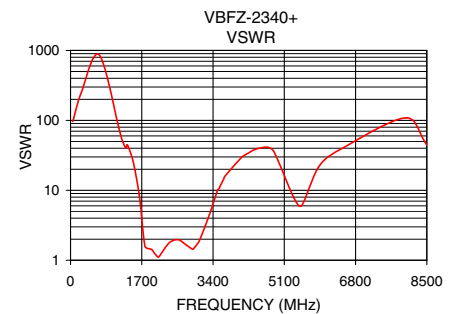
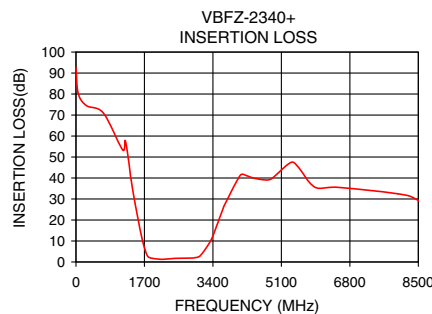


### Functional Schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	79.11	99.13
500	75.05	492.28
1000	55.64	162.13
1400	35.23	33.55
1450	29.70	30.82
1514	23.17	21.16
1630	12.16	9.28
1700	6.35	3.91
1785	2.64	1.47
2020	1.39	1.25
2340	1.51	1.74
2660	1.79	1.89
3145	3.94	2.37
3315	8.89	4.64
3480	16.47	9.08
3750	30.45	17.37
3800	32.80	21.11
3815	33.59	20.28
6000	35.17	30.31
8500	29.30	44.23



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

**minicircuits.com**

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

IF/RF MICROWAVE COMPONENTS

REV. A  
M117530  
EDR-8452U  
VBFZ-2340+  
URJ/RAV  
080610  
Page 1 of 1