

# Coaxial Bandpass Filter

## VBFZ-2130+

50Ω 2000 to 2260 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 18GHz
- 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



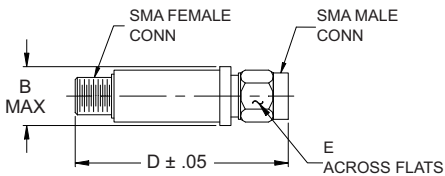
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-2130-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



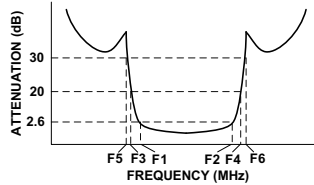
### Outline Dimensions (inch mm)

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

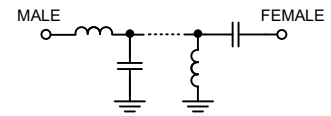
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

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.
2130	2000 - 2260	1420	2950	1400	2950 - 18000	1.6	2.8	20

### Typical Frequency Response

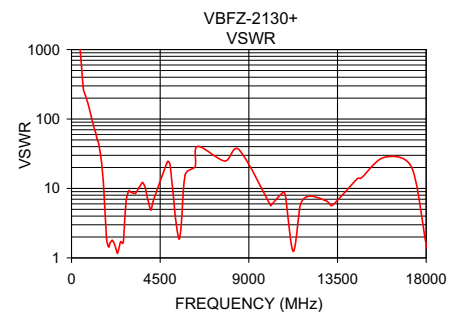
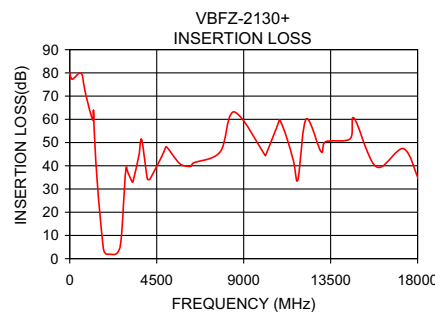


### Functional Schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	79.71	9101.03
500	80.20	421.71
1010	59.20	108.86
1400	35.53	39.85
1420	33.32	36.94
1605	14.83	13.49
1684	7.90	5.68
1753	3.93	2.43
2000	1.92	1.74
2130	1.88	1.72
2260	1.76	1.32
2540	3.39	1.76
2635	6.41	1.75
2710	13.61	3.83
2795	25.49	7.28
2840	32.11	8.65
2950	39.28	9.32
7000	45.16	38.06
10000	44.11	5.21
18000	34.85	1.59



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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-8451U  
VBZF-2130+  
URJ/RAV  
080610  
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