

Coaxial Bandpass Filter

VBFZ-5500+

50Ω 4900 to 6200 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 17GHz
- 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



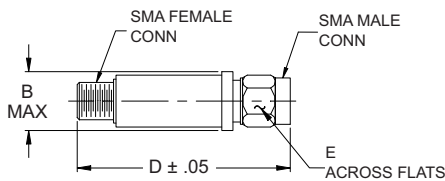
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-5500-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



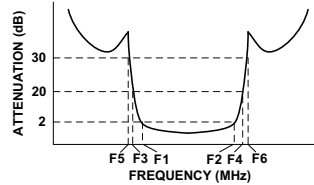
Outline Dimensions (inch mm)

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

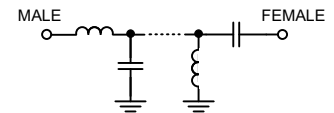
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB)	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB)		(Loss 30dB Typ)		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
5500	4900 - 6200	3600	8600	3500	8600 - 17000	1.3	2.1	20

Typical Frequency Response

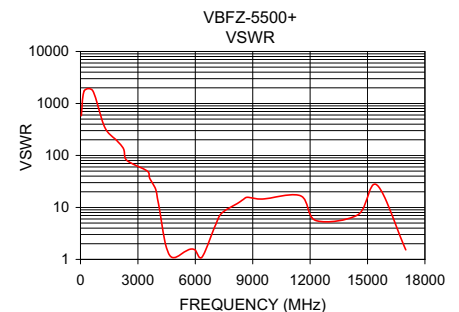
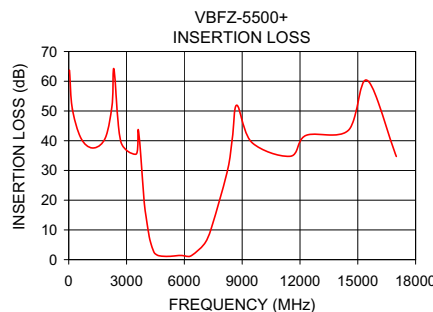


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	60.32	868.59
1500	37.93	157.93
3500	35.51	49.64
3600	41.94	39.49
3750	30.57	30.49
4000	15.08	17.05
4150	8.84	8.31
4300	4.47	3.66
4450	2.28	1.91
4900	1.14	1.07
5500	1.26	1.43
6200	1.27	1.32
6800	2.83	2.39
7000	4.82	4.03
7300	8.94	7.05
7700	15.82	8.81
8200	28.73	11.77
8600	48.53	15.00
10000	39.46	10.50
17000	34.71	1.53



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. A
M117530
EDR-8457/1U
VBFZ-5500+
URJ/RAV
080610
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