# **Bandpass Filter**

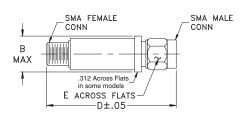
1350 to 1450 MHz  $50\Omega$ 

### **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. Permanent damage may occur if any of these limits are exceeded.

### **Outline Drawing**



### Outline Dimensions (inch )

wt.	Ε	D	В
grams	.312	1.91	.410
11.8	7.92	48.51	10.41

- · Good Rejection, 30dB up to 6600GHz
- Low insertion loss

- · Rugged stainless steel unibody
- Protected by US Patent 6,943,646

### **Applications**

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

### **Features**

• Excellent power handling, 7W

• Temperature stable LTCC internal structure

SMA

Connectors

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

CASE STYLE: FF1145

Model

VBFZ-1400-S+

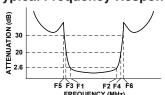
### +RoHS Compliant

VBFZ-1400+

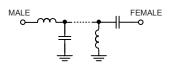
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub>= 25°C)

	72							
CENTER FREQ.	PASSBAND (MHz)	STOPBANDS (MHz)		VSWR (:1)				
(MHz)	(Loss < 2.6dB)	(Loss :	> 20dB)	(Loss	30dB Typ)	Pass	band	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Тур.	Max.	Тур.
1400	1350 - 1450	890	1965	870	1965 - 6600	1.6	2.3	20

### **Typical Frequency Response**

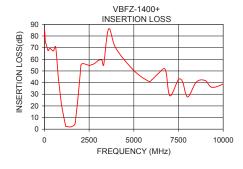


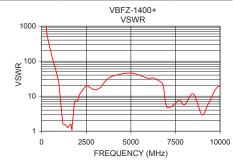
### **Functional Schematic**



### 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





Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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