

# Coaxial Bandpass Filter

## VBF-1560+

50Ω 1500 to 1620 MHz

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

\*Passband rating, derate linearly to 0.25W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

### Features

- Good VSWR, 1.1:1 Typ @ Passband
- Rugged uni-body construction, small size
- Temperature stable

### Applications

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



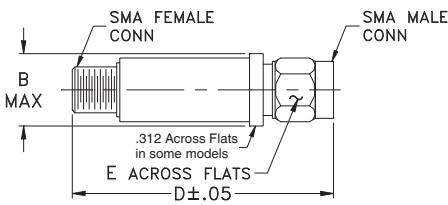
Generic photo used for illustration purposes only  
CASE STYLE: FF704

Connectors	Model
SMA	VBF-1560+

### +RoHS Compliant

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

### Outline Drawing



### Outline Dimensions (inch mm)

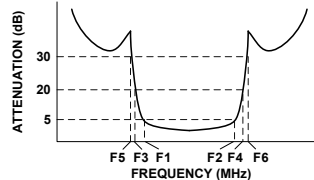
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Note: Please refer to case style drawing for details

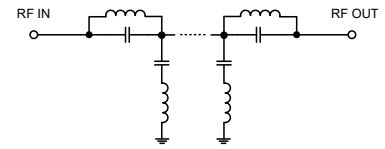
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 5dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB F3	Loss > 20dB F4	Loss 30dB Typ F5	Loss 30dB Typ F6	Passband Max.	Stopband Typ.
1560	1500 - 1620	1100	2100	1040	2105 - 4200	1.7	20

### Typical Frequency Response

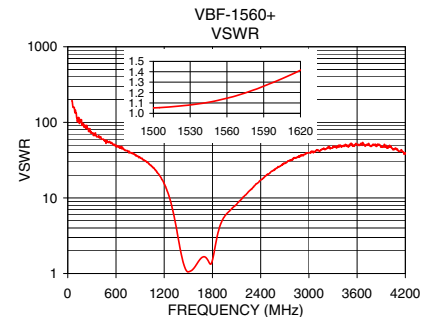
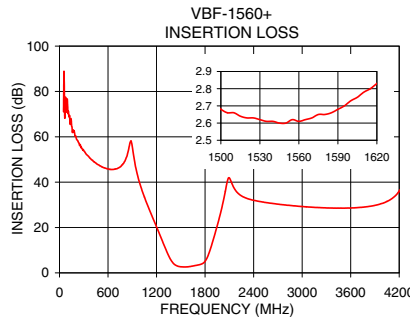


### Functional Schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	71.05	193.02
200	60.45	86.86
500	47.20	54.29
1040	34.41	26.33
1100	28.83	22.58
1250	15.98	11.38
1340	8.27	4.63
1400	4.51	2.09
1500	2.68	1.05
1560	2.61	1.15
1620	2.83	1.41
1780	4.36	1.33
1850	8.85	2.79
1910	15.74	4.72
2000	27.66	6.53
2100	41.90	8.20
2105	41.62	8.35
3500	28.55	49.64
4200	36.01	38.61



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

