Coaxial

Bandpass Filter

VBFZ-6260-S+

50Ω 5600 to 7000 MHz

Generic photo used for illustration purposes only

CASE STYLE: FF1145

Connectors	Model
SMA	VBFZ-6260-S+

+RoHS Compliant

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

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.

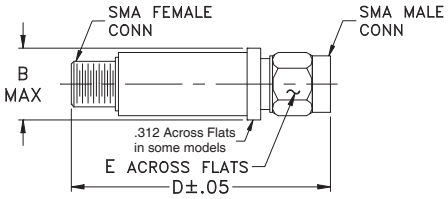
Features

- 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

Outline Drawing



Outline Dimensions (inch / mm)

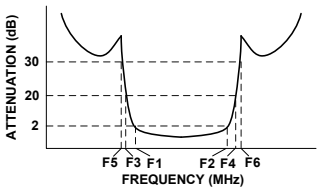
B	D	E	wt.
.410	**1.91**	**.312**	grams
10.41	48.51	7.92	11.8

Note: Please refer to case style drawing for details

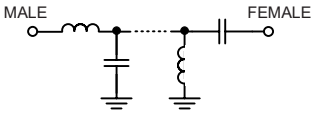
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB)	STOPBANDS (MHz) (Loss > 20dB)		(Loss 30dB Typ)		VSWR (:1) Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
6260	5600 - 7000	4200	9300	4100	9300 - 18000	1.4	2.1	20

Typical Frequency Response



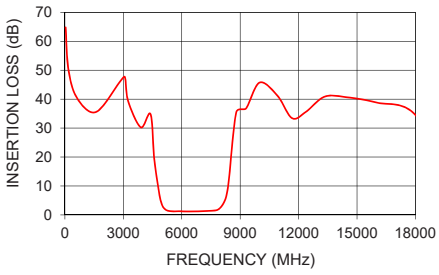
Functional Schematic



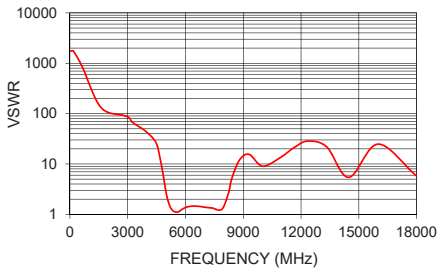
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	61.42	1737.18
1500	35.70	144.77
2500	38.25	75.53
4100	31.23	38.61
4200	33.45	40.41
4600	18.69	18.50
4800	8.89	7.94
4950	4.26	3.34
5100	2.18	1.78
5600	1.22	1.11
6260	1.20	1.44
7000	1.27	1.39
8000	2.35	1.41
8200	4.54	2.34
8350	8.83	4.24
8500	15.54	7.05
8750	31.12	11.10
9300	36.77	15.53
14000	37.83	4.78
18000	34.51	5.75

VBFZ-6260-S+
INSERTION LOSS



VBFZ-6260-S+
VSWR



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.
C. The parts covered by this specification document are subject to Mini-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Coaxial SMA Band Pass Filter VBFZ-6260-S+

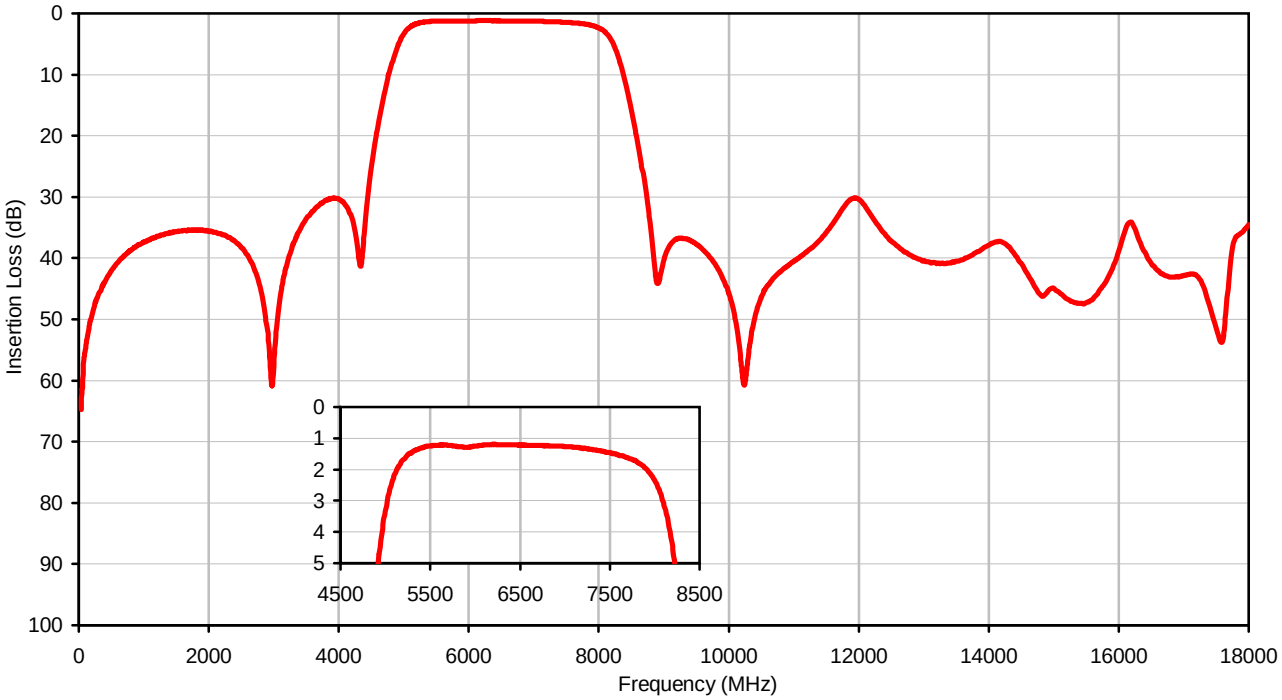
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
50	61.42	0.01
1500	35.70	0.12
2500	38.25	0.23
4100	31.23	0.45
4200	33.45	0.43
4600	18.69	0.94
4800	8.89	2.20
4950	4.26	5.36
5100	2.18	11.01
5600	1.22	25.80
6260	1.20	14.80
7000	1.27	15.84
8000	2.35	15.42
8200	4.54	7.92
8350	8.83	4.18
8500	15.54	2.48
8750	31.12	1.57
9300	36.77	1.12
14000	37.83	3.69
18000	34.51	3.05

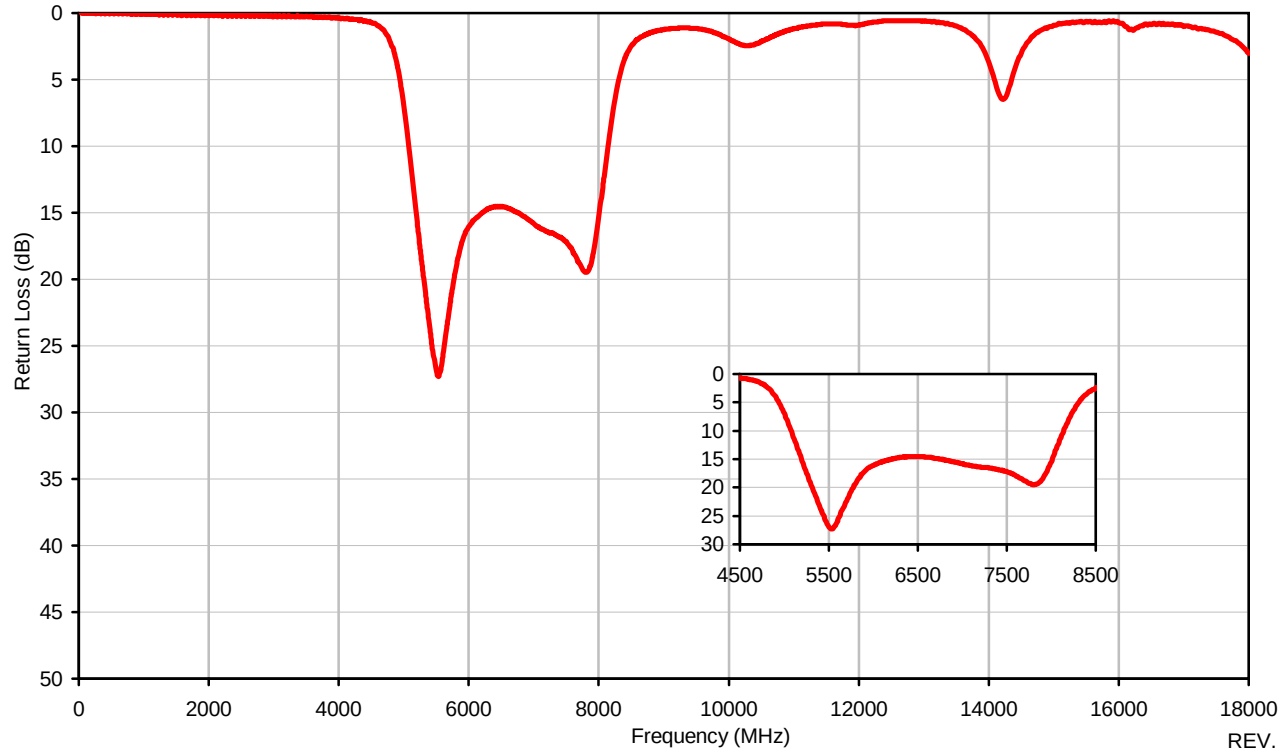
Coaxial SMA Band Pass Filter VBFZ-6260-S+

Typical Performance Curves

Insertion Loss



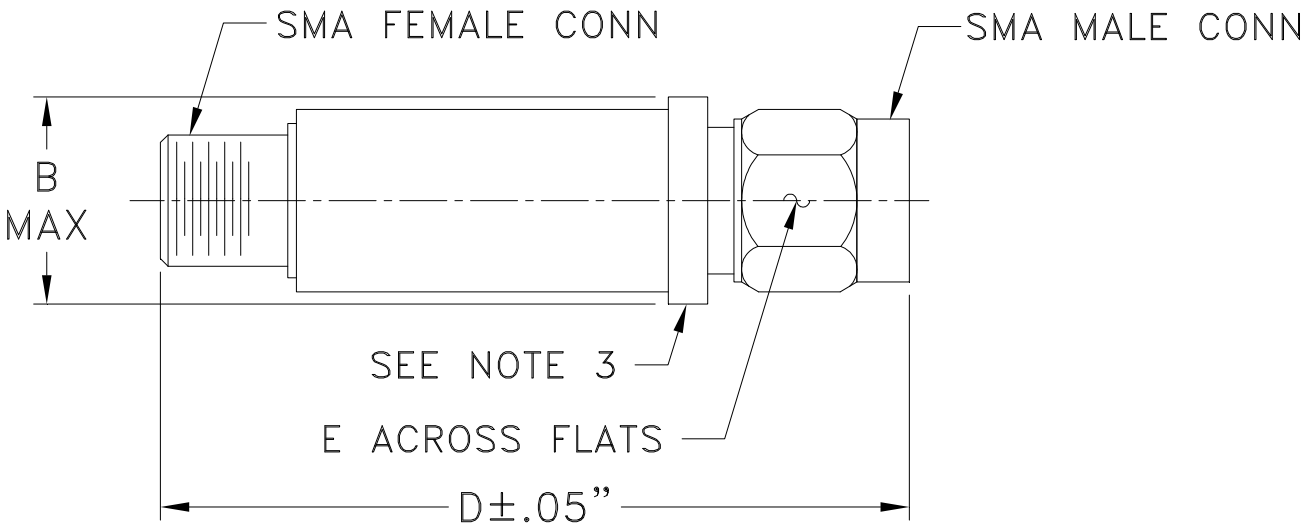
Return Loss



Case Style FF

FF1145

Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF1145	-- --	.410 (10.41)	-- --	1.91 (48.51)	.312 (7.92)	11.8

Dimensions are in inches (mm). Tolerances: 2Pl. ± .04; 3Pl. ± .030

Notes:

1. Case material: Stainless steel.
2. Case finish: Gold plated.
3. Round Flange may have .312 Across Flats in some models.

Mini-Circuits

Environmental Specifications ENV28

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I