

Bandpass Filter

50Ω 3000 to 4300 MHz

VBFZ-3590+

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, 25dB up to 14GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unibody
- Protected by US Patent 6,943,646



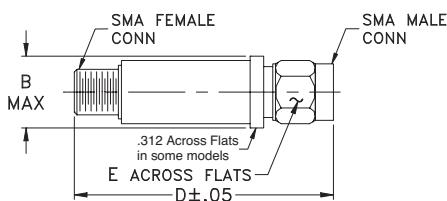
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-3590-S+	\$39.95 ea.	(1-9)

+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	1.91	.312	grams

10.41 48.51 7.92 11.8

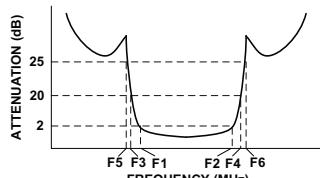
Applications

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

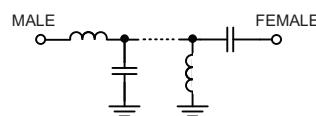
Bandpass Filter Electrical Specifications ($T_{AMB} = 25^{\circ}\text{C}$)

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 2dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB) F3	(Loss 25dB Typ) F4	F5	F6	Passband Typ.	Max.	Stopband Typ.
3590	3000 - 4300	2250	5950	2200	5950 - 14000	1.3	2.1	20

Typical Frequency Response

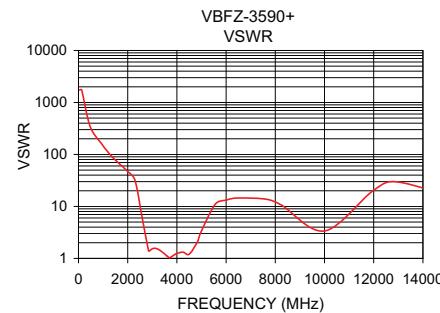
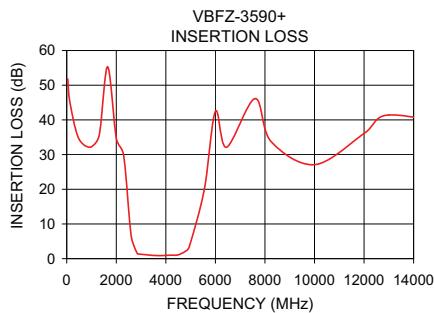


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	51.58	1737.18
1500	42.11	91.43
2200	43.33	36.97
2250	37.02	34.75
2350	24.16	26.33
2550	9.29	8.81
2650	4.57	3.72
2750	2.19	1.82
3000	1.26	1.53
3590	0.89	1.12
4300	1.03	1.30
4750	1.71	1.62
4900	2.90	2.54
5100	6.15	5.06
5300	11.21	8.60
5500	17.93	10.82
5700	24.54	10.56
5950	38.85	12.99
10000	27.08	3.36
14000	31.63	8.51



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