

Coaxial Bandpass Filter

VBFZ-1690+

50Ω 1455 to 1925 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 9GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unbody
- Protected by US Patent 6,943,646

Applications

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



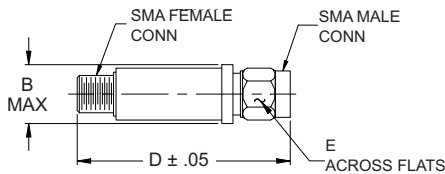
CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-1690-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



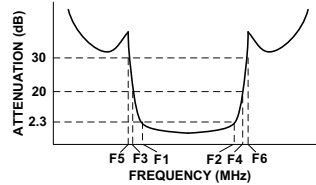
Outline Dimensions (inch mm)

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

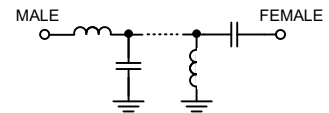
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz) Fc	PASSBAND (MHz) (Loss < 2.3dB)F1 - F2	STOPBANDS (MHz)				VSWR (:1)		
		(Loss > 20dB)		(Loss 30dB Typ)		Passband		Stopband
		F3	F4	F5	F6	Typ.	Max.	Typ.
1690	1455 - 1925	930	2600	860	2600 - 9000	1.5	2.1	20

Typical Frequency Response

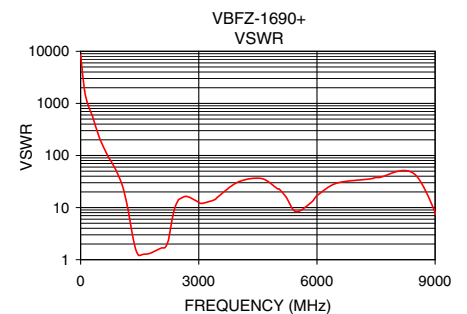
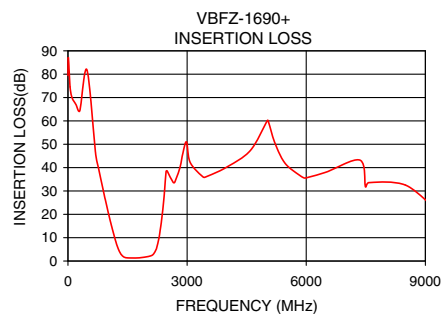


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	86.61	10115.69
80	73.10	5119.22
250	64.79	643.00
860	32.45	58.56
930	27.04	46.34
1095	15.22	21.49
1222	7.44	7.65
1323	3.21	2.82
1455	1.45	1.25
1690	1.31	1.29
1925	1.61	1.52
2152	2.95	1.73
2226	5.12	2.31
2305	11.33	5.02
2380	20.83	9.21
2460	36.26	13.08
2600	33.24	16.19
5000	59.51	22.99
6800	39.14	31.52
9000	28.16	24.29



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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-8448U
VBFZ-1690+
URJ/RAV
080610
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