

Coaxial Bandpass Filter

VBFZ-1065+

50Ω 980 to 1150 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 11GHz
- 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



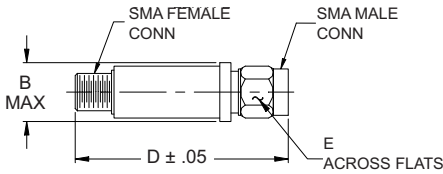
CASE STYLE: FF1145

| Connectors | Model | Price | Qty. |
|------------|--------------|-------------|-------|
| SMA | VBFZ-1065-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



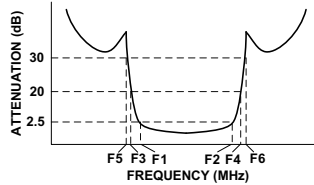
Outline Dimensions (inch mm)

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

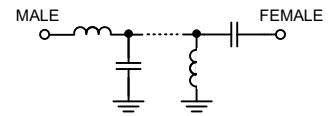
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

| CENTER FREQ. (MHz) Fc | PASSBAND (MHz) (Loss < 2.3dB) | STOPBANDS (MHz) | | | | VSWR (:1) | | |
|--------------------------|----------------------------------|-----------------|------|-----------------|--------------|-----------|------|----------|
| | | (Loss > 20dB) | | (Loss 30dB Typ) | | Passband | | Stopband |
| | F1 - F2 | F3 | F4 | F5 | F6 | Typ. | Max. | Typ. |
| 1065 | 980 - 1150 | 630 | 1800 | 600 | 1800 - 11000 | 1.4 | 2.1 | 20 |

Typical Frequency Response

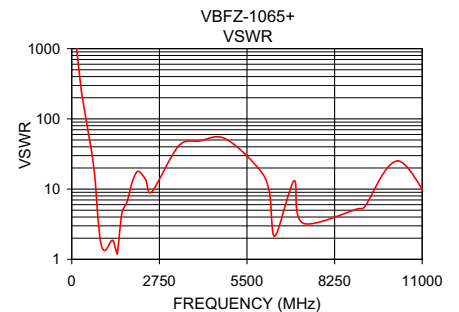
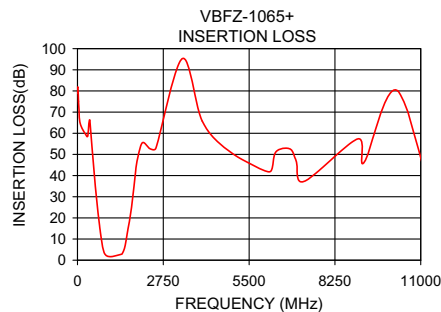


Functional Schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 10 | 81.73 | 7758.65 |
| 80 | 66.51 | 2941.49 |
| 250 | 58.37 | 378.75 |
| 600 | 30.82 | 40.05 |
| 630 | 26.53 | 33.07 |
| 723 | 14.55 | 15.01 |
| 792 | 7.33 | 5.97 |
| 850 | 3.78 | 2.79 |
| 980 | 1.80 | 1.38 |
| 1065 | 1.68 | 1.35 |
| 1150 | 1.83 | 1.54 |
| 1275 | 2.30 | 1.87 |
| 1435 | 3.06 | 1.22 |
| 1520 | 6.46 | 2.91 |
| 1605 | 13.53 | 5.12 |
| 1760 | 27.72 | 7.23 |
| 1800 | 33.65 | 8.52 |
| 3000 | 70.36 | 22.88 |
| 8000 | 46.84 | 25.98 |
| 11000 | 46.55 | 18.29 |



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IF/RF MICROWAVE COMPONENTS

REV. B
M117530
EDR-8446U
VBFZ-1065+
URJ/RAV
080610
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