

# Bandpass Filter

## VBF-2555+

50Ω 2500 to 2610 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, 1.6:1 Typ @ Passband
- Rugged uni-body construction, small size
- Temperature stable

### Applications

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



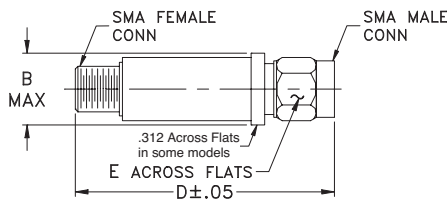
CASE STYLE: FF704

| Connectors | Model     | Price       | Qty.  |
|------------|-----------|-------------|-------|
| SMA        | VBF-2555+ | \$34.95 ea. | (1-9) |

### +RoHS Compliant

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

### Outline Drawing



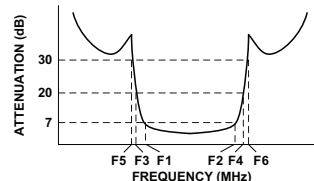
### Outline Dimensions (inch mm)

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

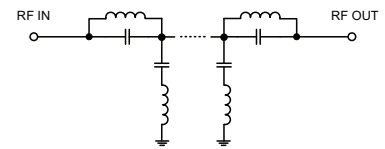
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

| CENTER<br>FREQ.<br>(MHz) | PASSBAND<br>(MHz)<br>(Loss < 7dB) | STOPBANDS (MHz) |      |               |             | VSWR (:1) |      |          |
|--------------------------|-----------------------------------|-----------------|------|---------------|-------------|-----------|------|----------|
|                          |                                   | Loss > 20dB     |      | Loss 30dB Typ |             | Passband  |      | Stopband |
| Fc                       | F1 - F2                           | F3              | F4   | F5            | F6          | Typ.      | Max. | Typ.     |
| 2555                     | 2500 - 2610                       | 1970            | 3200 | 2000          | 3250 - 5500 | 1.6       | 2.8  | 20       |

### Typical Frequency Response

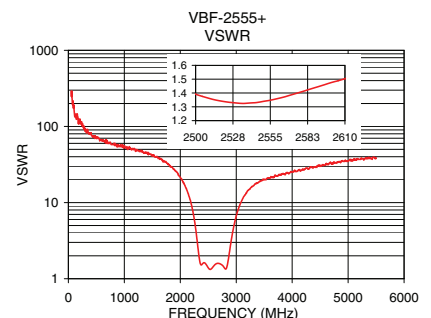
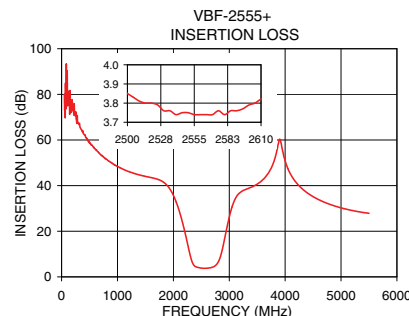


### Functional Schematic



### Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50              | 72.26               | 289.53    |
| 200             | 74.05               | 115.81    |
| 500             | 59.32               | 69.49     |
| 1000            | 48.65               | 54.29     |
| 1970            | 37.58               | 23.18     |
| 2000            | 36.10               | 21.46     |
| 2200            | 20.97               | 9.33      |
| 2300            | 10.44               | 3.23      |
| 2350            | 6.26                | 1.68      |
| 2500            | 3.77                | 1.39      |
| 2555            | 3.69                | 1.35      |
| 2610            | 3.78                | 1.50      |
| 2850            | 7.92                | 1.64      |
| 2920            | 14.90               | 3.49      |
| 3000            | 24.49               | 6.66      |
| 3200            | 37.30               | 14.15     |
| 3250            | 38.25               | 15.26     |
| 3700            | 46.50               | 22.87     |
| 4500            | 34.74               | 31.03     |
| 5500            | 27.76               | 38.61     |



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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](http://www.minicircuits.com/MCLStore/terms.jsp).

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