

# Coaxial Low Pass Filter

## VLF-2600+

50Ω \*DC to 2600 MHz



CASE STYLE: FF704

| Connectors | Model     |
|------------|-----------|
| SMA        | VLF-2600+ |

**+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*            | 10W max. at 25°C  |
| DC Current Input to Output | 0.5A max. at 25°C |

\* Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

### Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

### Applications

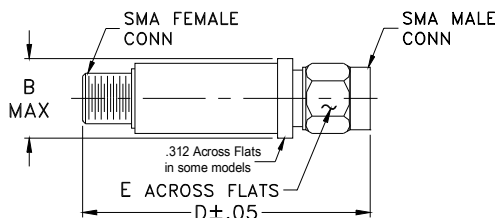
- harmonic rejection
- transmitters/receivers
- lab use

### Electrical Specifications at 25°C

| PASSBAND (MHz)<br>(loss < 1.2 dB) | f <sub>co</sub> , MHz<br>Nom.<br>(loss 3 dB) | STOP BAND (MHz)<br>(loss, dB) |            |               | VSWR (:1)        |                  | NO. OF SECTIONS |
|-----------------------------------|--|-------------------------------|------------|---------------|------------------|------------------|-----------------|
|                                   |  | f 20<br>Min.                  | 30<br>Typ. | fr 20<br>Typ. | Stopband<br>Typ. | Passband<br>Typ. |                 |
| Max.                              | Typ.   |                               |            |               |                  |                  |                 |
| *DC-2600                          | 3125   | 3750                          | 3900-6600  | 8400          | 20               | 1.2              | 7               |

\* Not for use with DC voltage at input and output ports

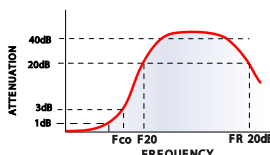
### Outline Drawing



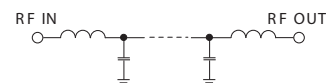
### Outline Dimensions (inch/mm)

| B     | D     | E    | wt    |
|-------|-------|------|-------|
| .410  | 1.43  | .312 | grams |
| 10.41 | 36.32 | 7.92 | 10.0  |

### typical frequency response

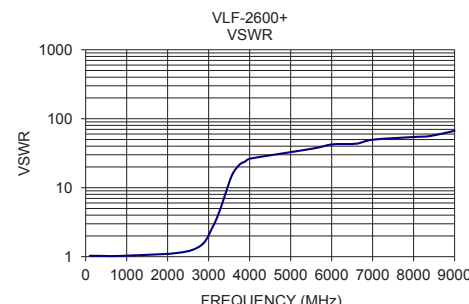


### electrical schematic



### Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100             | 0.07                | 1.03      |
| 1000            | 0.25                | 1.04      |
| 2600            | 0.78                | 1.25      |
| 3125            | 2.97                | 2.89      |
| 3560            | 15.15               | 14.74     |
| 3750            | 23.32               | 21.46     |
| 3900            | 30.08               | 24.14     |
| 4000            | 34.10               | 26.33     |
| 5550            | 45.41               | 36.97     |
| 6000            | 39.18               | 42.38     |
| 6600            | 30.88               | 43.44     |
| 7000            | 27.65               | 49.64     |
| 8000            | 22.82               | 54.29     |
| 8400            | 21.58               | 56.04     |
| 9000            | 19.95               | 66.82     |



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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