

# Coaxial Low Pass Filter

50Ω

DC to 2200 MHz

VLF-2250+  
VLF-2250



## 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.

## 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

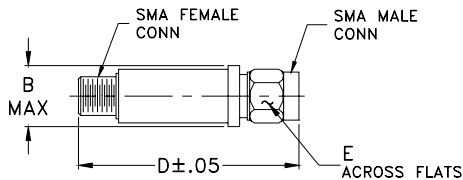
CASE STYLE: FF704

| Connectors | Model       | Price       | Qty.  |
|------------|-------------|-------------|-------|
| SMA        | VLF-2250(+) | \$21.95 ea. | (1-9) |

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

## Outline Drawing



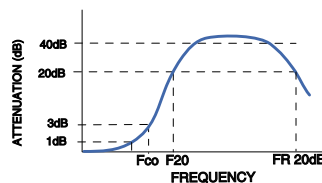
## Outline Dimensions (inch/mm)

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

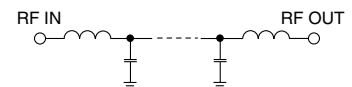
## Electrical Specifications (T<sub>AMB</sub> = 25°C)

| PASSBAND (MHz)<br>(loss < 1.2 dB) | fco, MHz<br>Nom.<br>(loss 3 dB) | STOP BAND (MHz)<br>(loss, dB) |           |       | VSWR (:1) |          | NO. OF SECTIONS |
|-----------------------------------|---------------------------------|-------------------------------|-----------|-------|-----------|----------|-----------------|
|                                   |                                 | f 20                          | 30        | fr 20 | Stopband  | Passband |                 |
| Max.                              | Typ.                            | Min.                          | Typ.      | Typ.  | Typ.      | Typ.     |                 |
| DC-2200                           | 2575                            | 2900                          | 3000-5000 | 7200  | 20        | 1.2      | 7               |

## typical frequency response



## electrical schematic



## Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50.00           | 0.06                | 1.01      |
| 500.00          | 0.11                | 1.02      |
| 1000.00         | 0.15                | 1.05      |
| 1500.00         | 0.33                | 1.07      |
| 2000.00         | 0.51                | 1.06      |
| 2250.00         | 0.82                | 1.20      |
| 2575.00         | 2.84                | 2.10      |
| 2850.00         | 24.55               | 7.08      |
| 3800.00         | 48.40               | 32.18     |
| 4250.00         | 37.39               | 34.07     |
| 5000.00         | 33.16               | 36.97     |
| 6500.00         | 37.38               | 30.49     |
| 7200.00         | 30.64               | 39.49     |
| 8000.00         | 7.60                | 9.69      |
| 9000.00         | 14.79               | 30.49     |

