

Coaxial

# Low Pass Filter

**NEW!**

**VLF-1800**

DC to 1800 MHz

## Maximum Ratings

|                            |                   |
|----------------------------|-------------------|
| Operating Temperature      | -55°C to 100°C    |
| Storage Temperature        | -55°C to 100°C    |
| RF Power Input             | 10*W max. at 25°C |
| DC Current Input to Output | 0.5A max. at 25°C |

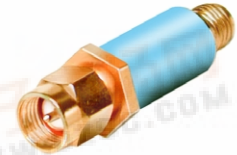
\*Passband rating, derate linearly to 3.5W at 100°C ambient.

## Features

- low cost
- small size
- 7 sections
- temperature stable
- patent pending

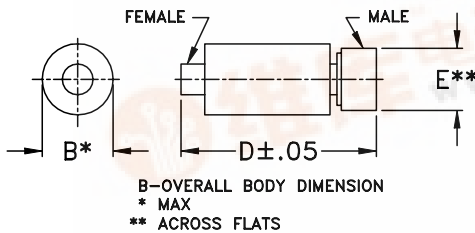
## Applications

- harmonic rejection
- transmitters/receivers
- lab use



CASE STYLE: FF704  
PRICE: \$19.95 ea. QTY (10-24)

## Outline Drawing



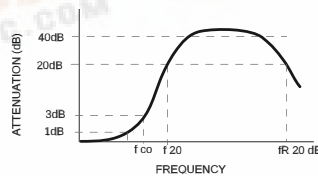
## Outline Dimensions (inch/mm)

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

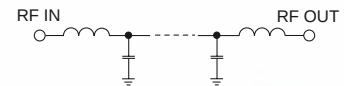
## Low Pass Filter Electrical Specifications (T<sub>AMB</sub>=25°C)

| MODEL NO. | PASSBAND (MHz)<br>(loss < 1 dB)<br>Max. | f <sub>co</sub> , MHz<br>Nom.<br>(loss 3 dB)<br>Typ. | STOP BAND (MHz)<br>(loss, dB) |           |            | VSWR (:1)     |               | NO. OF SECTIONS |
|-----------|-----------------------------------------|------------------------------------------------------|-------------------------------|-----------|------------|---------------|---------------|-----------------|
|           |                                         |                                                      | f 20 Min.                     | 30 Typ.   | fr 20 Typ. | Stopband Typ. | Passband Typ. |                 |
| VLF-1800  | DC-1800                                 | 2125                                                 | 2425                          | 2500-7200 | 8600       | 20            | 1.2           | 7               |

## typical frequency response



## schematic



## Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100.00          | 0.07                | 1.01      |
| 500.00          | 0.21                | 1.11      |
| 1000.00         | 0.41                | 1.24      |
| 1500.00         | 0.62                | 1.24      |
| 1850.00         | 0.86                | 1.06      |
| 1875.00         | 0.90                | 1.07      |
| 2000.00         | 1.21                | 1.22      |
| 2125.00         | 2.29                | 1.88      |
| 2450.00         | 32.51               | 15.53     |
| 2500.00         | 33.42               | 17.05     |
| 4000.00         | 38.61               | 42.38     |
| 6000.00         | 37.95               | 34.07     |
| 7200.00         | 32.93               | 24.48     |
| 8800.00         | 20.55               | 18.90     |
| 9000.00         | 19.80               | 17.39     |

