

Coaxial

# Low Pass Filter

DC to 1450 MHz

**NEW!**  
**VLF-1450**

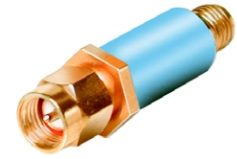
## Maximum Ratings

|                            |                   |
|----------------------------|-------------------|
| 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



CASE STYLE: FF704

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

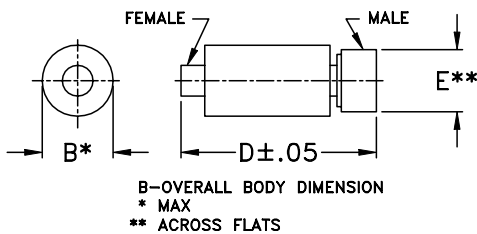
## Applications

- harmonic rejection
- transmitters/receivers
- lab use

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

| MODEL NO. | PASSBAND (MHz)<br>(loss < 1 dB)<br>Max. | fco, MHz<br>Nom.<br>(loss 3 dB)<br>Typ. | 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. |                 |
| VLF-1450  | DC-1450                                 | 1825                                    | 2025                          | 2050-6600  | 6700          | 20               | 1.2              | 7               |

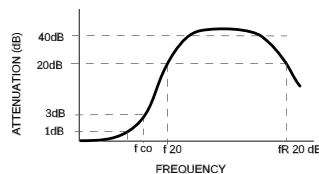
## Outline Drawing



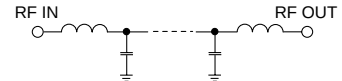
## Outline Dimensions (inch/mm)

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

## typical frequency response



## schematic



## Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 100.00          | 0.10                | 1.03      |
| 1000.00         | 0.50                | 1.12      |
| 1400.00         | 0.86                | 1.07      |
| 1600.00         | 1.49                | 1.35      |
| 1700.00         | 2.90                | 2.22      |
| 1800.00         | 8.10                | 5.85      |
| 2025.00         | 33.68               | 18.90     |
| 2050.00         | 36.32               | 19.98     |
| 2500.00         | 35.12               | 34.07     |
| 2700.00         | 34.84               | 37.77     |
| 3000.00         | 37.19               | 43.44     |
| 5000.00         | 43.89               | 41.37     |
| 6600.00         | 30.75               | 21.20     |
| 6800.00         | 16.06               | 11.85     |
| 7000.00         | 18.67               | 18.11     |

