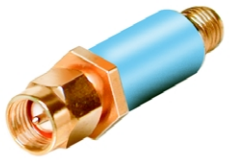
*Coaxial*

# Low Pass Filter

## DC to 1400 MHz

NEW!

## VLF-1400



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

### 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.*

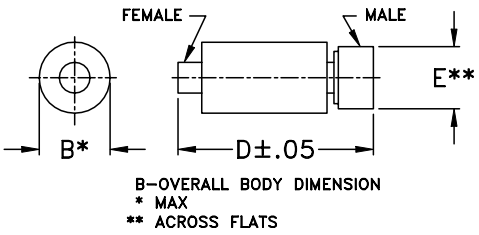
### Features

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

### Applications

- harmonic rejection
- transmitters/receivers
- lab use

### Outline Drawing



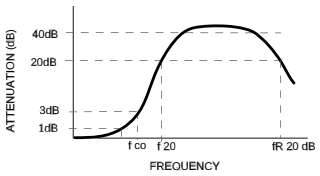

### Outline Dimensions (inch / mm)

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

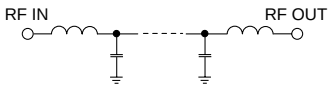
### Low Pass Filter Electrical Specifications ($T_{AMB}$=25°C)

| MODEL NO. | PASSBAND (MHz) (loss < 1 dB) Max. | fco, MHz Nom. (loss 3 dB) Typ. | STOP BAND (MHz) (loss, dB) f 20 Min. | 30 Typ. | fr 20 Typ. | VSWR (:1) Stopband Typ. | Passband Typ. | NO. OF SECTIONS |
|---|---|---|---|---|---|---|---|---|
| VLF-1400 | DC-1400 | 1700 | 1975 | 2050-6600 | 6800 | 20 | 1.2 | 7 |

typical frequency response




schematic




### Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|---|---|---|
| 100.00 | 0.11 | 1.02 |
| 500.00 | 0.24 | 1.08 |
| 1000.00 | 0.41 | 1.11 |
| 1400.00 | 0.72 | 1.22 |
| 1700.00 | 3.20 | 3.20 |
| 1975.00 | 24.77 | 16.89 |
| 2000.00 | 28.65 | 17.39 |
| 2050.00 | 38.72 | 17.75 |
| 2500.00 | 34.93 | 17.75 |
| 3000.00 | 37.62 | 24.14 |
| 4000.00 | 50.70 | 39.49 |
| 5000.00 | 45.47 | 30.49 |
| 6600.00 | 34.00 | 18.70 |
| 6800.00 | 26.51 | 16.56 |
| 7000.00 | 16.88 | 10.89 |