

# Low Pass Filter

## Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost

## Applications

- harmonic rejection
- transmitters/receivers
- lab use

## Electrical Specifications at 25°C

| PASSBAND<br>(MHz)<br>(loss < 1.2 dB)<br>max. | fco, MHz<br>Nom.<br>(loss 3 dB)<br>Typ. | STOP BAND (MHz)<br>(loss, dB) |            |               | VSWR<br>(:1)     |                  | NO. OF<br>SECTIONS |
|----------------------------------------------|-----------------------------------------|-------------------------------|------------|---------------|------------------|------------------|--------------------|
|                                              |                                         | f 20<br>min.                  | 40<br>typ. | fr 20<br>max. | Stopband<br>Typ. | Passband<br>Typ. |                    |
| DC~2200                                      | 2575                                    | 2900                          | 3000-5000  | 7200          | 20               | 1.2              | 7                  |

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

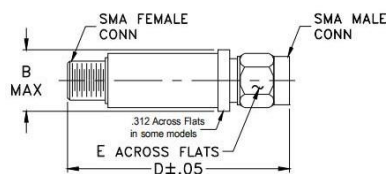
## Typical Performance Data

(TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +25°C)

| Frequency<br>(MHz) | Insertion Loss<br>(dB) | VSWR<br>(:1) |
|--------------------|------------------------|--------------|
| 50                 | 0.06                   | 1.01         |
| 500                | 0.11                   | 1.02         |
| 1000               | 0.15                   | 1.05         |
| 1500               | 0.33                   | 1.07         |
| 2000               | 0.51                   | 1.06         |
| 2250               | 0.82                   | 1.20         |
| 2575               | 2.84                   | 2.10         |
| 2850               | 24.55                  | 7.08         |
| 3800               | 48.40                  | 32.18        |
| 4250               | 37.39                  | 34.07        |
| 5000               | 33.16                  | 36.97        |
| 6500               | 37.38                  | 30.49        |
| 7200               | 30.64                  | 39.49        |
| 8000               | 7.60                   | 9.69         |
| 9000               | 14.79                  | 30.49        |

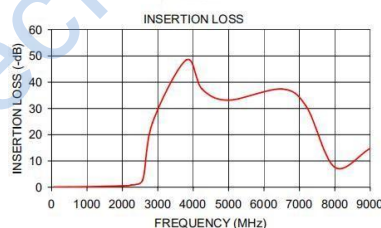
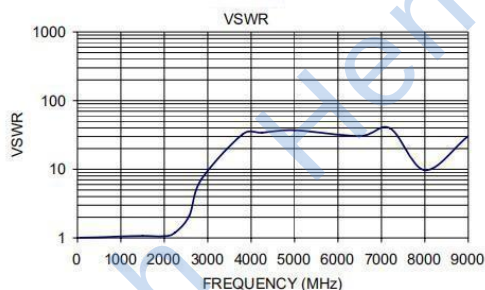
## Outline Drawing

### Outline Drawing



### Outline Dimensions: Unit (mm)

|    |       |   |      |
|----|-------|---|------|
| B  | 10.41 | E | 7.92 |
| D  | 36.32 |   |      |
| wt | 10.0  |   |      |

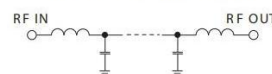


## HT-VLF-2250+

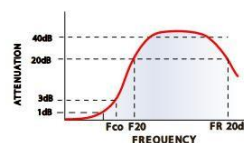


50Ω \*DC to 2250 MHz

## electrical schematic



## typical frequency response



## 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.