

# Low Pass Filter

## Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8.5W
- temperature stable
- low cost

## Applications

- harmonic rejection
- transmitters/receivers
- lab use

## HT-VLF-575+

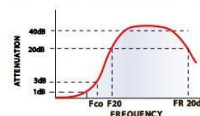


50Ω \*DC to 575 MHz

### electrical schematic



### typical frequency response



### 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~575                                       | 770                                     | 900                           | 1050-3200  | 5500          | 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) |
|--------------------|------------------------|--------------|
| 1                  | 0.05                   | 1.01         |
| 100                | 0.21                   | 1.03         |
| 350                | 0.47                   | 1.11         |
| 575                | 0.84                   | 1.06         |
| 700                | 1.63                   | 1.53         |
| 770                | 3.23                   | 2.25         |
| 810                | 6.80                   | 4.13         |
| 840                | 13.17                  | 7.73         |
| 870                | 22.75                  | 11.61        |
| 900                | 35.71                  | 14.26        |
| 1050               | 50.67                  | 20.95        |
| 2000               | 59.09                  | 45.72        |
| 3200               | 40.27                  | 56.04        |
| 4500               | 31.35                  | 46.96        |
| 5500               | 22.64                  | 42.38        |

### Maximum Ratings

Operating Temperature -55°C to 100°C

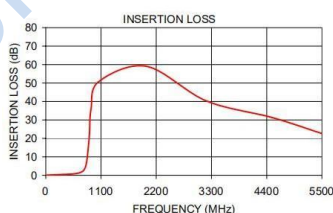
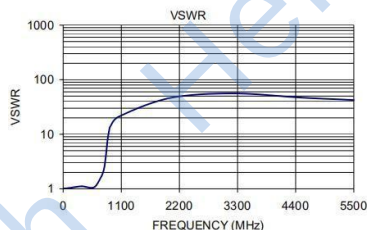
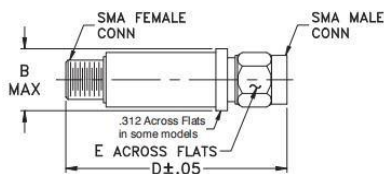
Storage Temperature -55°C to 100°C

RF Power Input\* 8.5W 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.

### Outline Drawing



### Outline Dimensions: Unit (mm)

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