*Ultra-Reliable*

# Low Pass Filter

## VLP-11

50Ω DC to 850 MHz

CASE STYLE: FF704

| Connectors | Model |
|---|---|
| **SMA** | VLP-11 |

### Maximum Ratings

| | |
|---|---|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 16W max. at 25°C |

* Passband rating, derate linearly to 0.4xPmax at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

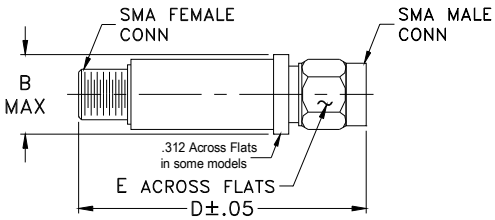
### Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 16W
- low cost

### Applications

- harmonic rejection
- transmitters/receivers
- lab use

### Outline Drawing



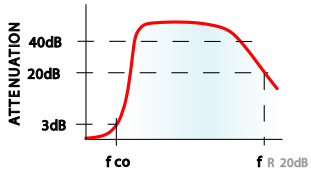

### Outline Dimensions (inch / mm)

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

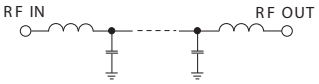
### Electrical Specifications ($T_{AMB}$=25°C)

| PASSBAND (MHz) (loss < 1 dB) Typ. | fco, MHz Nom. (loss 3 dB) Typ. | STOP BAND (MHz) (loss > 20 dB) | STOP BAND (MHz) (loss > 40 dB) | STOP BAND (MHz) fr20 dB Typ. | VSWR (:1) Passband Typ. |
|---|---|---|---|---|---|
| DC-850 | 1125 | 1500 | 2000-3100 | 5500 | 1.2 |

### typical frequency response

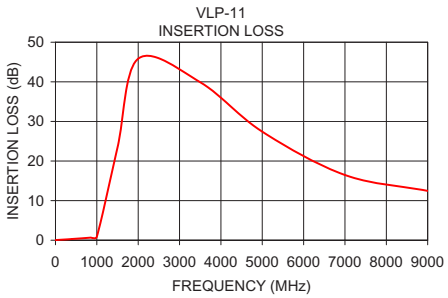


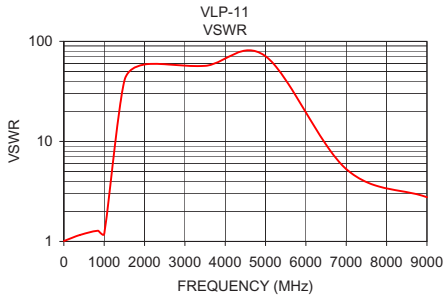

### electrical schematic




### Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|---|---|---|
| 1.00 | 0.05 | 1.01 |
| 400.00 | 0.31 | 1.16 |
| 850.00 | 0.67 | 1.28 |
| 1000.00 | 0.87 | 1.19 |
| 1500.00 | 23.40 | 40.40 |
| 2000.00 | 45.85 | 58.70 |
| 3500.00 | 39.90 | 56.87 |
| 5000.00 | 27.41 | 71.04 |
| 7000.00 | 16.46 | 5.29 |
| 9000.00 | 12.46 | 2.77 |




Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp