*Ultra-Reliable*

# Low Pass Filter

## VLP-41

50Ω DC to 3300 MHz

CASE STYLE: FF704

| Connectors | Model |
|---|---|
| **SMA** | VLP-41 |

### Maximum Ratings

| | |
|---|---|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 10W 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.

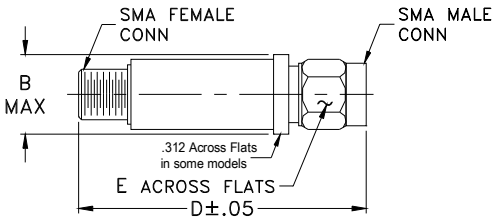
### Features

- rugged unibody construction
- low insertion loss passband, less than 1 dB typ.
- excellent power handling, 10W
- low cost

### Applications

- harmonic rejection
- transmitters/receivers
- lab use

### Outline Drawing



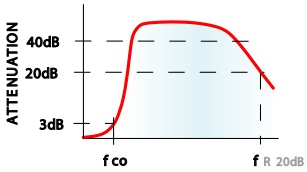

### Outline Dimensions (inch / mm)

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

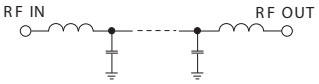
### Electrical Specifications ($T_{AMB}$=25°C)

| PASSBAND (MHz) (loss < 1 dB) Typ. | fco, MHz Nom. (loss 3 dB) Typ. | STOP BAND (MHz) (loss > 20 dB) | STOP BAND (MHz) fr20 dB Typ. | VSWR (:1) Passband Typ. |
|---|---|---|---|---|
| DC-3300 | 4100 | 5600 | 10000 | 1.2 |

### typical frequency response

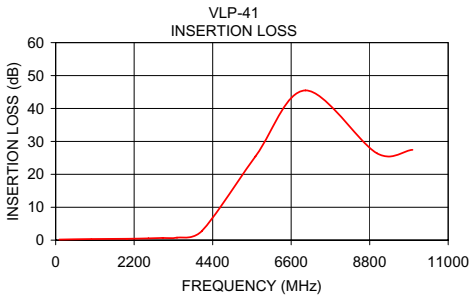


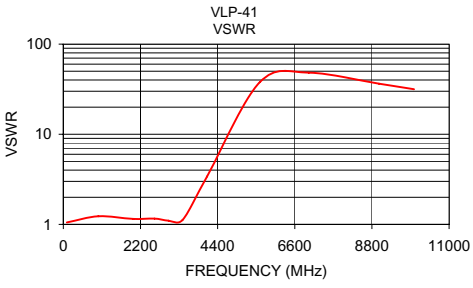

### electrical schematic




### Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|---|---|---|
| 100.00 | 0.18 | 1.05 |
| 1000.00 | 0.34 | 1.23 |
| 2000.00 | 0.40 | 1.15 |
| 2600.00 | 0.55 | 1.16 |
| 3000.00 | 0.66 | 1.10 |
| 3400.00 | 0.78 | 1.12 |
| 4100.00 | 2.81 | 3.40 |
| 5600.00 | 25.45 | 37.77 |
| 7000.00 | 45.48 | 48.26 |
| 9000.00 | 26.40 | 36.42 |
| 10000.00 | 27.45 | 31.59 |




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