

Low Pass Filter

VLF-4400+

50Ω DC to 4400 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input* 8W at 25°C

DC Current Input to Output 0.5A max. at 25°C

*Passband rating, derate linearly to 3 W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Features

- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US Patent 6,943,646

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use



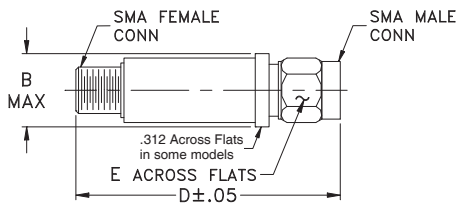
CASE STYLE: FF704

| Connectors | Model |
|------------|-----------|
| SMA | VLF-4400+ |

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



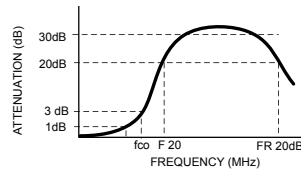
Outline Dimensions (inch/mm)

| B | D | E | wt. |
|-------|-------|------|-------|
| .410 | 1.43 | .312 | grams |
| 10.41 | 36.32 | 7.92 | 10 |

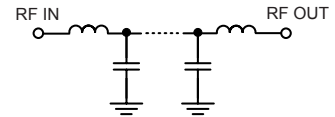
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

| PASSBAND (MHz) | f _{co} , MHz Nom. | STOP BAND (MHz) (loss, dB) | | | VSWR (:1) | | NO. OF SECTIONS |
|-----------------------|-------------------------------|----------------------------|------------|---------------|------------------|------------------|-----------------|
| | | F 20 Min. | 30 Typ. | FR 20 Typ. | Stopband Typ. | Passband Typ. | |
| (loss < 1 dB) Max. | (loss 3 dB) Typ. | | | | | | |
| DC-4400 | 5290 | 6700 | 6280-9800 | 13000 | 17 | 1.2 | 7 |

Typical frequency response

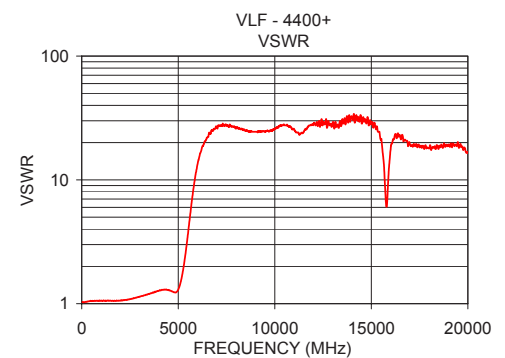
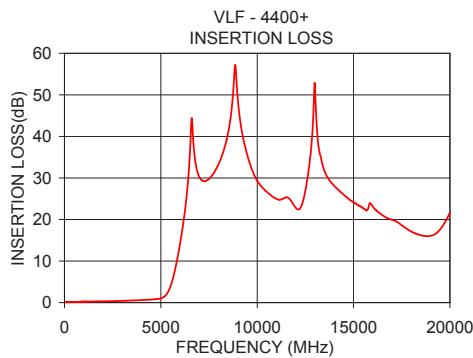


Electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50 | 0.05 | 1.03 |
| 320 | 0.12 | 1.05 |
| 1340 | 0.23 | 1.05 |
| 3740 | 0.55 | 1.27 |
| 4400 | 0.73 | 1.33 |
| 5170 | 1.79 | 1.90 |
| 5290 | 2.69 | 2.62 |
| 5580 | 7.10 | 6.76 |
| 5860 | 14.01 | 13.81 |
| 6280 | 30.56 | 21.46 |
| 6700 | 31.54 | 25.56 |
| 7400 | 29.23 | 27.16 |
| 9800 | 33.62 | 28.03 |
| 13000 | 40.36 | 34.75 |
| 20000 | 18.06 | 15.00 |



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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



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