

Coaxial Low Pass Filter

VLF-1500+

50Ω *DC to 1500 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF704

| Connectors | Model |
|------------|-----------|
| SMA | VLF-1500+ |

+RoHS Compliant

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

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.

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 10W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

Applications

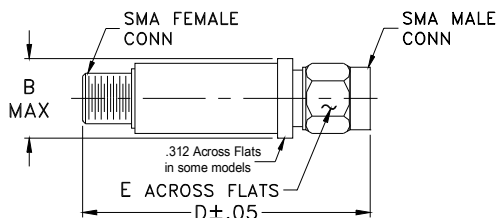
- harmonic rejection
- transmitters/receivers
- lab use

Electrical Specifications at 25°C

| PASSBAND (MHz) (loss < 1 dB) | f _{co} , MHz Nom. (loss 3 dB) | STOP BAND (MHz) (loss, dB) | | | VSWR (:1) | | NO. OF SECTIONS |
|---------------------------------|--|-------------------------------|------------|---------------|------------------|------------------|-----------------|
| | | f 20 Min. | 30 Typ. | fr 20 Typ. | Stopband Typ. | Passband Typ. | |
| Max. | Typ. | | | | | | |
| *DC-1500 | 1825 | 2100 | 2150-6600 | 6800 | 20 | 1.2 | 7 |

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

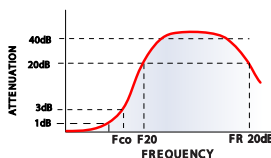
Outline Drawing



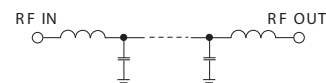
Outline Dimensions (inch/mm)

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

typical frequency response

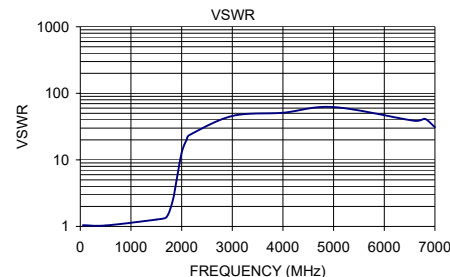


electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50 | 0.07 | 1.04 |
| 500 | 0.18 | 1.04 |
| 1500 | 0.67 | 1.27 |
| 1700 | 1.16 | 1.38 |
| 1825 | 2.84 | 2.46 |
| 1900 | 6.24 | 4.93 |
| 2000 | 16.20 | 12.80 |
| 2100 | 36.11 | 20.22 |
| 2150 | 34.78 | 23.49 |
| 3000 | 31.36 | 45.72 |
| 4000 | 42.21 | 51.10 |
| 5000 | 45.73 | 62.05 |
| 6600 | 31.36 | 38.61 |
| 6800 | 34.26 | 41.37 |
| 7000 | 24.02 | 31.03 |



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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



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