

Coaxial Low Pass Filter

50Ω *DC to 2250 MHz

VLF-2250+ VLF-2250



Generic photo used for illustration purposes only

CASE STYLE: FF704

| Connectors | Model |
|------------|-------------|
| SMA | VLF-2250(+) |

+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 < 1.2 dB) | fco, 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-2200 | 2575 | 2900 | 3000-5000 | 7200 | 20 | 1.2 | 7 |

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

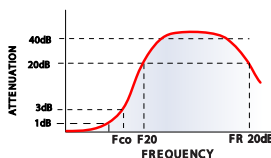
Outline Drawing



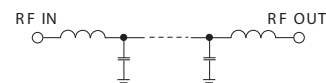
Outline Dimensions (inch/mm)

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

typical frequency response

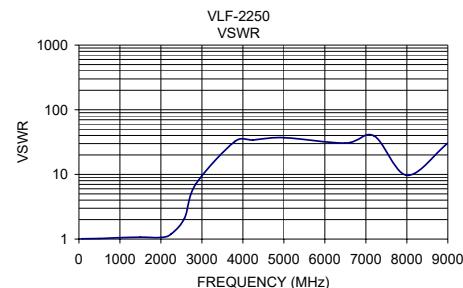


electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50.00 | 0.06 | 1.01 |
| 500.00 | 0.11 | 1.02 |
| 1000.00 | 0.15 | 1.05 |
| 1500.00 | 0.33 | 1.07 |
| 2000.00 | 0.51 | 1.06 |
| 2250.00 | 0.82 | 1.20 |
| 2575.00 | 2.84 | 2.10 |
| 2850.00 | 24.55 | 7.08 |
| 3800.00 | 48.40 | 32.18 |
| 4250.00 | 37.39 | 34.07 |
| 5000.00 | 33.16 | 36.97 |
| 6500.00 | 37.38 | 30.49 |
| 7200.00 | 30.64 | 39.49 |
| 8000.00 | 7.60 | 9.69 |
| 9000.00 | 14.79 | 30.49 |



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/WCLStore/terms.jsp

