

Coaxial Low Pass Filter

50Ω *DC to 630 MHz

VLF-630+ VLF-630



Generic photo used for illustration purposes only

CASE STYLE: FF704

| Connectors | Model |
|------------|------------|
| SMA | VLF-630(+) |

+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* | 8.5W 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, 8.5W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

Applications

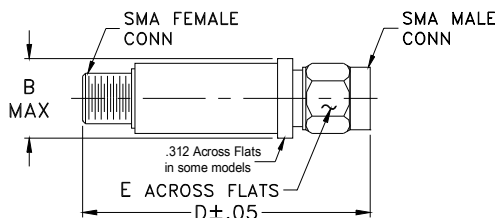
- harmonic rejection
- transmitters/receivers
- lab use

Electrical Specifications at 25°C

| PASSBAND (MHz) (loss < 1.2 dB) | f _{co} , MHz Nom. (loss 3 dB) | STOP BAND (MHz) (loss, dB) | | | VSWR (:1) | | NO. OF SECTIONS |
|-----------------------------------|--|-------------------------------|------------|---------------|------------------|------------------|-----------------|
| | | f 20 Min. | 40 Typ. | fr 20 Typ. | Stopband Typ. | Passband Typ. | |
| Max. | Typ. | | | | | | |
| *DC-630 | 830 | 1000 | 1050-3500 | 6000 | 20 | 1.2 | 7 |

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

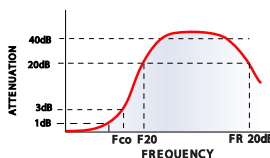
Outline Drawing



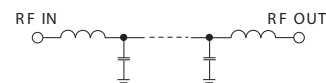
Outline Dimensions (inch/mm)

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

typical frequency response

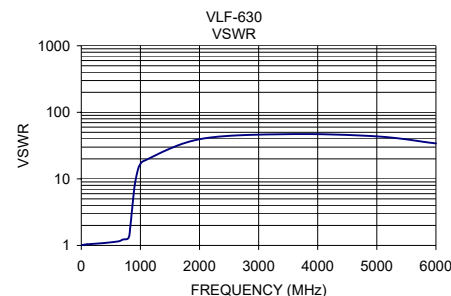
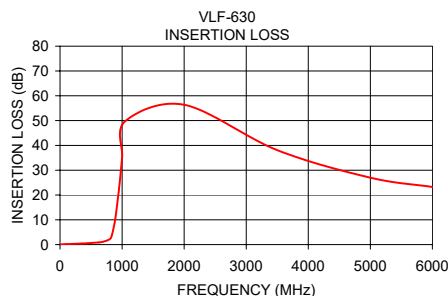


electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 1 | 0.05 | 1.01 |
| 100 | 0.19 | 1.04 |
| 350 | 0.42 | 1.08 |
| 630 | 0.89 | 1.15 |
| 700 | 1.17 | 1.22 |
| 800 | 2.16 | 1.30 |
| 830 | 3.34 | 1.92 |
| 880 | 8.80 | 5.25 |
| 910 | 14.08 | 8.64 |
| 960 | 24.64 | 13.92 |
| 1000 | 35.29 | 16.72 |
| 1050 | 49.74 | 18.50 |
| 2000 | 56.37 | 39.49 |
| 3500 | 38.09 | 46.96 |
| 5000 | 26.98 | 43.44 |
| 6000 | 23.24 | 34.07 |



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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