Coaxial Low Pass Filter

50Ω

*DC to 6700 MHz

Maximum Ratings

| Operating Temperature | -55°C to 100°C | |
|----------------------------|--------------------------|--|
| Storage Temperature | nperature -55°C to 100°C | |
| RF Power Input* | 9W max. at 25°C | |
| DC Current Input to Output | 0.5A max. at 25°C | |

* Passband rating, derate linearly to 3W 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, 9W
- temperature stable
- · low cost
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- transmitters/receivers
- · lab use



Generic photo used for illustration purposes only CASE STYLE: FF704

Connectors Model SMA VLF-6700+

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

Outline Drawing



Outline Dimensions (inch)

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

PASSBAND STOP BAND (MHz) fco, MHz VSWR NO. OF SECTIONS (MHz) Nom. (loss, dB) (:1) (loss < 1.2 dB) (loss 3 dB) f 20 30 fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. Тур *DC-6700 7600 9300 9500-11000 18000 20 1.3 7 Not for use with DC voltage at input and output ports

Electrical Specifications at 25°C

typical frequency response



electrical schematic



VLF-6700

VSWR

FREQUENCY (MHz)

Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|--------------------|------------------------|--------------|
| 50.00 | 0.03 | 1.01 |
| 500.00 | 0.08 | 1.02 |
| 1000.00 | 0.15 | 1.01 |
| 3500.00 | 0.25 | 1.05 |
| 5000.00 | 0.47 | 1.16 |
| 6700.00 | 0.79 | 1.32 |
| 7600.00 | 3.12 | 3.22 |
| 8000.00 | 7.62 | 7.34 |
| 9000.00 | 26.00 | 21.20 |
| 10000.00 | 55.95 | 44.55 |
| 12000.00 | 34.91 | 108.58 |
| 15000.00 | 26.32 | 22.58 |
| 17000.00 | 23.79 | 18.90 |
| 18000.00 | 21.88 | 40.41 |
| 19890.00 | 22.46 | 2.30 |



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

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Mini-Circuits

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