Low Pass Filter

*DC to 320 MHz 50Ω

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

CASE STYLE: FF704

| Connectors | Model |
|------------|-----------|
| SMA | VI F-320+ |

+RoHS Compliant

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

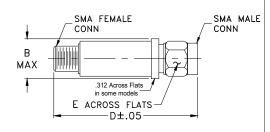
- **Applications** harmonic rejection
- transmitters/receivers
- lab use

Electrical Specifications at 25°C

| PASSBAND (MHz) | fco, MHz Nom. | STOP BAND (MHz) (loss, dB) | | VSWR (:1) | | NO. OF SECTIONS | |
|-------------------|------------------|-------------------------------|----------|--------------|----------|--------------------|---|
| (loss < 1 dB) | (loss 3 dB) | f 20 | 40 | fr 20 | Stopband | Passband | |
| Max. | Тур. | Min. | Typ. | Тур. | Тур. | Тур. | |
| *DC-320 | 460 | 560 | 640-2500 | 5300 | 20 | 1.2 | 7 |

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

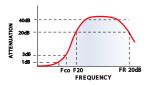
Outline Drawing



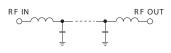
Outline Dimensions (inch)

В D Ε .410 1.43 .312 grams 10.41 36.32 7.92 10.0

typical frequency response

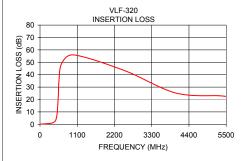


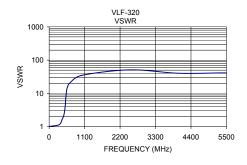
electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|--------------------|------------------------|--------------|
| 1 | 0.09 | 1.02 |
| 100 | 0.30 | 1.05 |
| | | |
| 320 | 0.83 | 1.16 |
| 400 | 1.56 | 1.63 |
| 460 | 3.07 | 2.32 |
| 500 | 7.33 | 4.34 |
| 520 | 13.60 | 7.94 |
| 545 | 25.47 | 12.71 |
| 560 | 34.83 | 14.62 |
| 640 | 49.07 | 20.45 |
| 1000 | 55.95 | 34.75 |
| 2500 | 43.30 | 51.10 |
| 4000 | 25.31 | 40.41 |
| 5300 | 23.02 | 41.37 |
| 5500 | 22.51 | 41.37 |
| 5500 | 22.51 | 41.37 |





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