Coaxial Low Pass Filter

50Ω

*DC to 1000 MHz

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 exce

Features

- rugged unibody 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



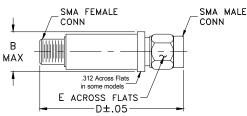


CASE STYLE: FF704

Connectors Model SMA VLF-1000(+)

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

Outline Drawing



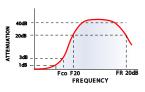
Outline Dimensions (inch)

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

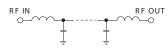
· lab use Electrical Specifications at 25°C PASSBAND STOP BAND (MHz) fco, MHz VSWR NO. OF SECTIONS (MHz) Nom. (loss, dB) (:1) (loss < 1 dB)(loss 3 dB) F 20 30 Fr 20 Stopband Passband Max Тур. Min Тур Тур Тур. Тур *DC-1000 1300 1900-5000 5500 20 1.3 7 1550

Not for use with DC voltage at input and output ports

typical frequency response

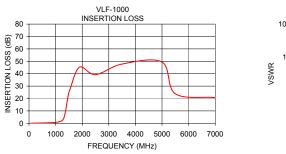


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.07	1.02
250	0.18	1.03
700	0.39	1.04
1000	0.77	1.18
1200	1.69	1.55
1300	3.79	2.53
1380	10.57	7.31
1460	20.88	15.13
1550	27.95	20.70
1900	45.25	33.42
2500	39.24	40.41
3500	47.78	44.55
5000	49.39	45.72
5500	23.86	40.41
7000	20.67	41.37



VI F-1000 VSWR 1000 100 10 1 0 1000 2000 3000 4000 5000 6000 7000 FREQUENCY (MHz)

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





RVN/AD/CP/AM