Low Pass Filter

50Ω

*DC to 6000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-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

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 9W
- temperature stable
- · low cost
- protected by U.S. Patent 6,943,646

Features

Applications harmonic rejection

VLF-6000

VLF-6000+

CASE STYLE: FF704

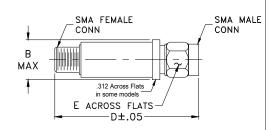
Connectors	Model
SMA	VLF-6000(+)

+RoHS Compliant

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

• transmitters/receivers • lab use

Outline Drawing



Outline Dimensions (inch)

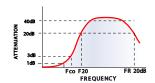
wt	Ε	D	В
grams	.312	1.43	.410
10.0	7 92	36.32	10 41

Electrical Specifications at 25°C

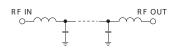
PASSBAND (MHz)	fco, MHz Nom.	S ⁻	TOP BAND (MI (loss, dB)	łz)		WR 1)	NO. OF SECTIONS
(loss < 1.2 dB)	(loss 3 dB)	F 20	30	Fr 20	Stopband	Passband	
Max.	Тур.	Min.	Тур.	Тур.	Тур.	Тур.	
*DC-6000	6800	8500	8700-10500	18000	20	1.3	7

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

typical frequency response

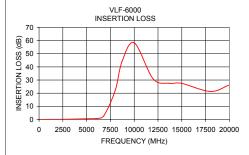


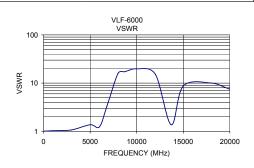
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.10	1.01
100.00	0.02	1.01
1000.00	0.10	1.03
3000.00	0.19	1.07
5000.00	0.57	1.37
6000.00	0.75	1.24
6800.00	2.80	3.31
8000.00	21.90	15.96
8720.00	44.10	17.22
10000.00	58.33	19.76
12000.00	30.77	15.26
13700.00	27.55	1.37
15000.00	27.44	8.72
18000.00	21.31	10.02
20000.00	26.23	7.44





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.ninicircuits.com/MCLStore/terms.jsp