Low Pass Filter

 50Ω

*DC to 6700 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

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

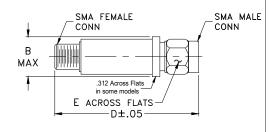
- harmonic rejection
- transmitters/receivers
- lab use

Electrical Specifications at 25°C

PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (: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-6700	7600	9300	9500-11000	18000	20	1.3	7

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

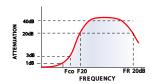
Outline Drawing



Outline Dimensions (inch)

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

typical frequency response



electrical schematic

VLF-6700+

Generic photo used for illustration purposes only

CASE STYLE: FF704

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site

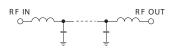
for RoHS Compliance methodologies and qualifications

Model

VLF-6700+

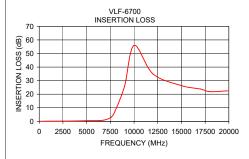
Connectors

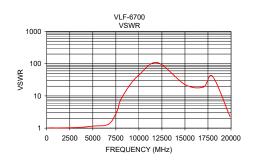
SMA



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





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