Low Pass Filter

*DC to 105 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

^{*} 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

Applications harmonic rejection • transmitters/receivers

· low cost

• lab use

• protected by U.S. Patent 6,943,646

CASE STYLE: FF704

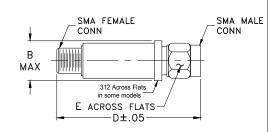
VLF-105+

Connectors	Model
SMA	VLF-105+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch)

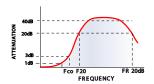
wt	Е	D	В
grams	.312	1.43	.410
10.0	7 92	36 32	10 41

Electrical Specifications at 25°C

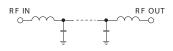
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
(loss < 1 dB)	(loss 3 dB)	f 20	40	fr 20	Stopband	Passband	
Max.	Тур.	Min.	Typ.	Тур.	Тур.	Тур.	
*DC-105	180	250	265-1650	4750	20	1.2	7

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

typical frequency response

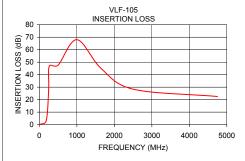


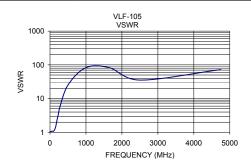
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.17	1.04
50	0.45	1.08
105	0.78	1.09
150	1.45	1.37
180	3.10	1.92
200	6.17	2.45
220	12.57	2.99
240	23.78	3.85
250	31.56	4.41
265	47.01	5.23
500	47.65	25.19
1000	68.04	82.73
1650	44.82	82.73
2500	28.37	35.46
4750	22.50	72.39





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