

Low Pass Filter

50Ω DC to 1050 MHz (40 dB Isolation up to 20 GHz)

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input* 10W 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.

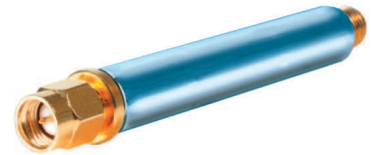
Features

- very good isolation, 40 dB up to 20 GHz
- 21 sections
- excellent power handling, 10W
- temperature stable LTCC internal structure
- re-entry frequency > 20 GHz
- rugged unibody construction
- protected by US patent 6,943,646

Applications

- harmonic rejection
- transmitters/receivers
- lab use
- test instrumentation

VLFX-1050+ VLFX-1050



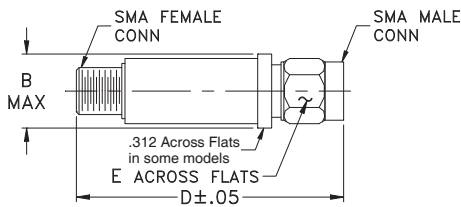
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-1050+	\$39.95 ea.	(1-9)
SMA	VLFX-1050	\$39.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



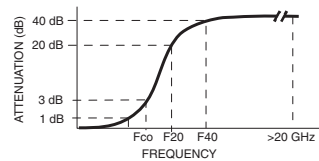
Outline Dimensions (inch mm)

B	D	E	wt.
.410	2.67	.312	grams
10.41	67.82	7.92	17.0

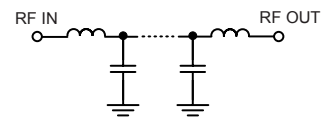
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (Loss < 1.2dB Max.)	Fco, MHz Nom (Loss 3 dB Typ)	STOPBAND (MHz) (Loss, dB)		VSWR (:1)		NO. OF SECTIONS
			F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-1050 (+)	DC-1050	1675	1990	2100-20000	10	1.4	21

Typical Frequency Response

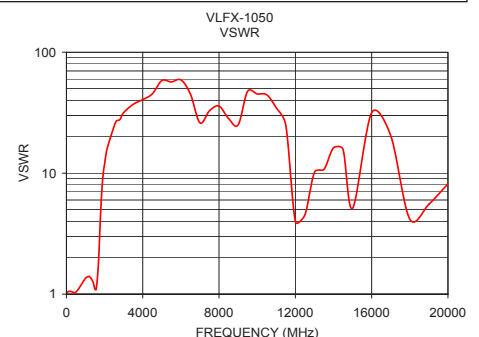
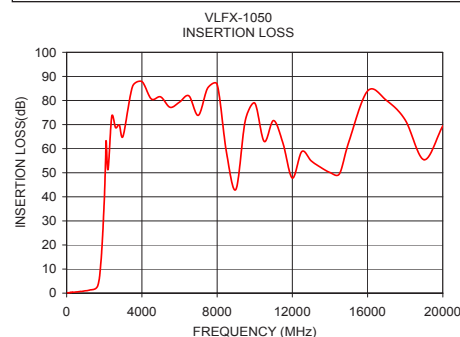


Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.21	1.04
400	0.41	1.03
750	0.73	1.18
1050	1.00	1.38
1200	1.21	1.40
1450	1.58	1.17
1675	3.70	1.84
1750	6.88	3.26
1850	15.92	6.97
1990	36.74	11.68
2100	63.21	15.18
4000	87.87	40.57
6000	79.32	59.00
8000	86.66	35.85
10000	78.90	45.17
12000	47.80	3.99
14000	50.11	16.18
16000	83.95	31.61
18000	71.89	4.18
20000	69.48	8.16



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com
IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

REV. C
M131810
VLFX-1050
EDU-0399
ED-11930A/15
URJ/RS/CP
130319
Page 1 of 1

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.