

Coaxial

Low Pass Filter

DC to 950 MHz (40 dB Isolation up to 20 GHz)

NEW!
VLFX-950

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.

Features

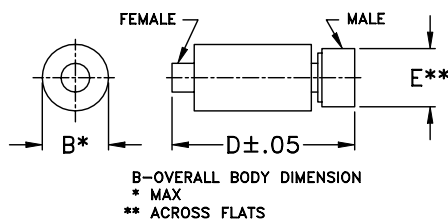
- very good isolation, 40 dB up to 20 GHz
- 21 sections
- temperature stable LTCC internal structure
- patent pending
- re-entry frequency > 20 GHz
- rugged stainless steel unibody


CASE STYLE: FF1118
PRICE: \$ 39.95 ea. QTY (1-9)

Applications

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

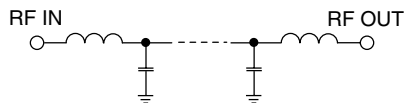
Outline Drawing



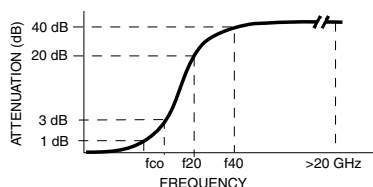
Outline Dimensions (inch/mm)

B	D	E	wt.
.39	2.67	.312	grams
9.91	67.82	7.92	17.0

Functional Schematic



Typical Frequency Response

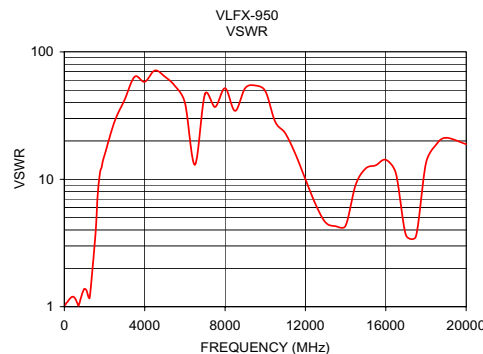
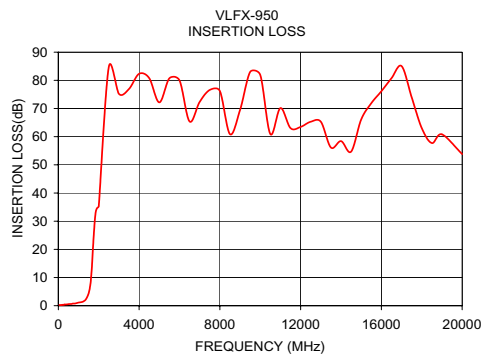


Low Pass Filter Electrical Specifications @ 25°C

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-950	DC-950	1400	1750	2250-20000	10	1.3	21

Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.27	1.03
300	0.42	1.17
600	0.60	1.11
950	1.02	1.34
1100	1.21	1.34
1275	1.67	1.23
1450	3.42	2.43
1550	5.78	3.72
1650	12.61	7.15
1725	21.51	9.72
2000	35.30	15.44
4000	82.32	58.20
6000	79.95	39.93
8000	76.22	51.88
10000	81.90	49.29
12000	63.46	10.03
14000	58.41	4.32
16000	76.13	14.24
18000	63.01	13.40
20000	53.82	18.85


Mini-Circuits®
INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. OR
M96318
VLFX-950
EDU-0399
ED-11930A/13
URJ/RS/CP
050119