Coaxial

Low Pass Filter

VLFX-1125

50Ω DC to 1125 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

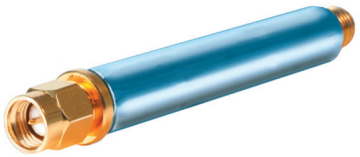
*Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Features

- 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



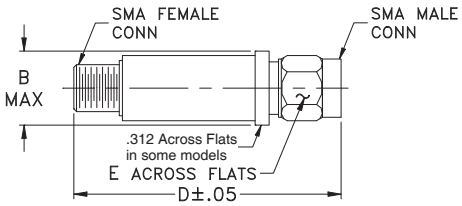
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-1125	$39.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



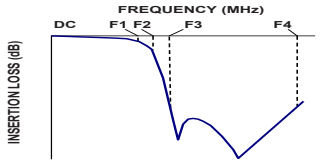
Outline Dimensions (inch / mm)

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

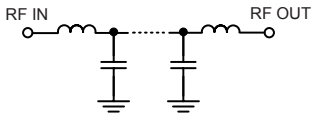
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) DC-F1 (Loss < 1.7dB) Max.	MHz Nom F2 (Loss 3 dB) Typ	STOPBAND (MHz) F3-F4 (Loss, dB) F20 Min.	F30 Typ.	VSWR (:1) Stopband Typ.	Passband Typ.	NO. OF SECTIONS
VLFX-1125	DC-1125	1850	2200-20000		10	1.9	21

Typical Frequency Response

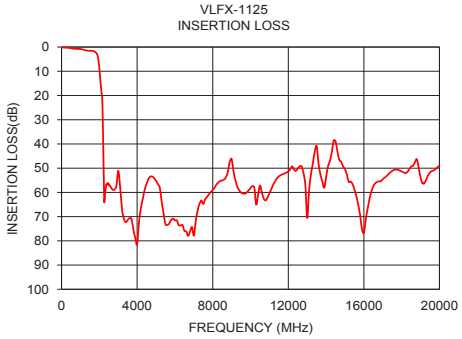


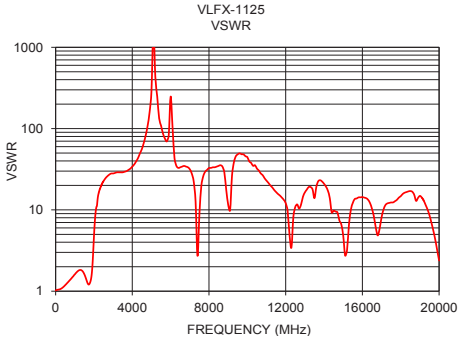
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.15	1.03
250	0.28	1.06
500	0.47	1.19
1000	0.81	1.61
1125	1.01	1.74
1250	1.30	1.82
1850	2.58	1.42
1900	3.39	1.78
2000	8.71	4.68
2100	17.61	9.96
2180	29.86	12.80
2200	38.49	14.15
2300	60.71	17.75
4000	81.40	34.07
6000	71.59	248.17
8000	58.96	32.79
10000	58.24	44.55
14000	53.77	20.95
16000	76.87	14.38
20000	48.92	2.38





Notes

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