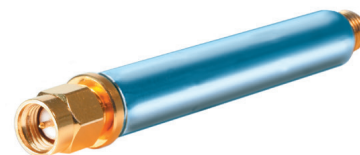


Coaxial Low Pass Filter

50Ω DC to 1050 MHz

VLFX-1050+ VLFX-1050



CASE STYLE: FF1118

Connectors	Model
SMA	VLFX-1050+
SMA	VLFX-1050

+RoHS Compliant

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

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

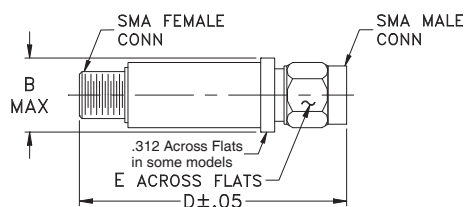
Applications

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

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)		VSWR (:1)		NO. OF SECTIONS
			20 Min.	30 Typ.	Stopband Typ.	Passband Typ.	
VLFX-1050 (+)	DC-1050	1675	2050-20000		10	1.9	21

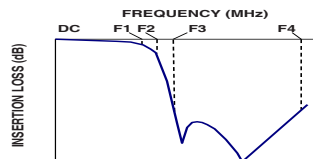
Outline Drawing



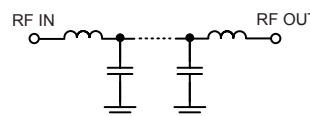
Outline Dimensions (inch mm)

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

Typical Frequency Response

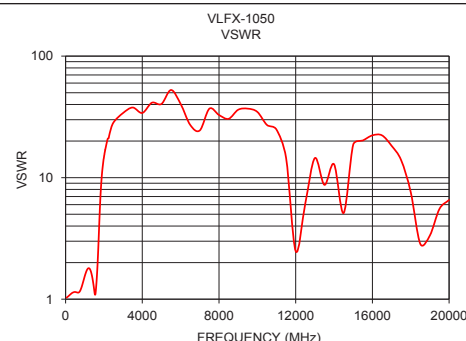
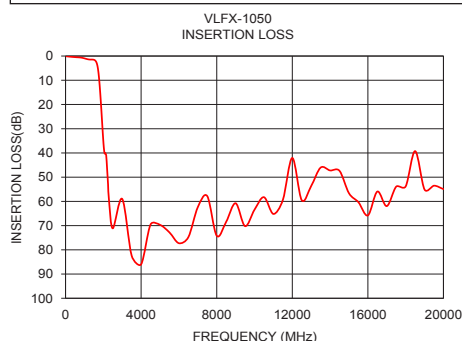


Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.12	1.03
400	0.39	1.14
1050	1.07	1.64
1450	1.47	1.33
1675	3.62	2.07
1750	7.40	3.99
1850	16.91	8.55
1900	22.89	10.89
1950	29.24	12.89
2000	35.21	14.74
2050	39.55	16.41
2100	40.09	17.93
3000	58.99	34.07
4000	85.99	34.07
6000	77.27	40.41
8000	74.19	32.79
10000	63.43	34.75
14000	47.23	12.89
16000	65.79	22.29
20000	54.93	6.56



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

