Low Pass Filter

VLFX-950+

DC to 950 MHz (40 dB Typ. Isolation up to 20 GHz) 50Ω



Connectors

CASE STYLE: FF1118

Model

VLFX-950+

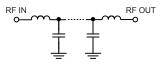
Features

- Very good isolation, 40 dB typ. up to 20 GHz
- Excellent power handling, 10W
- Temperature stable LTCC internal structure
- Re-entry frequency > 20 GHz
- Protected by US patent 6,943,646
- Rugged unibody construction

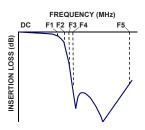
Applications

- · Harmonic rejection
- Transmitters/receivers
- Lab use
- · Test instrumentation

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

SMA Electrical Specifications(1) at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-950	_	1.1	1.6	dB
Pass Band	Freq. Cut-Off	F2	1400	_	3.0	_	dB
	VSWR	DC-F1	DC-950	_	1.4	_	:1
Stop Band	Insertion Loss	F3	1865	20	30	_	dB
		F4-F5	2250-20000	_	40	_	dB
	VSWR	F3-F5	1865-20000	_	10	_	:1

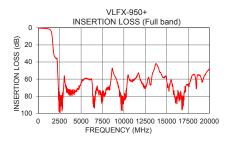
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

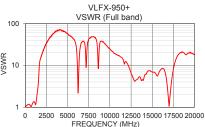
Maximum Ratings			
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	10W max.		

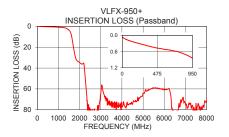
^{*}Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

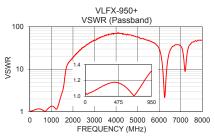
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.07	1.03
500	0.48	1.16
950	0.84	1.32
1400	2.28	1.98
1500	3.70	2.88
1650	12.65	8.43
1710	20.09	11.77
1750	24.84	13.09
1810	30.23	14.50
1865	32.65	15.81
2500	93.97	33.42
5000	64.02	57.91
7500	73.79	42.38
10000	80.21	24.48
12500	71.37	6.63
15000	62.48	6.97
17500	66.61	8.12
18000	55.44	17.05
19000	58.39	17.93
20000	47.94	17.93









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.

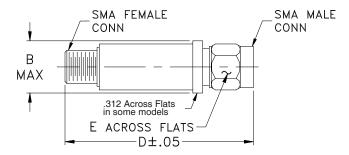
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited 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

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

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

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