ow Pass Filter

/LFX-500

DC to 500 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
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

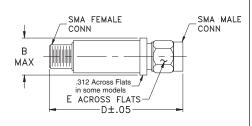
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-500	\$39.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



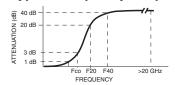
Outline Dimensions (inch)

wt.	E	D	В
grams	.312	2.67	.410
17.0	7 92	67.82	10.41

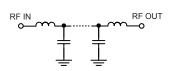
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz)	Fco, MHz Nom	STOPBAND (MHz) (Loss, dB)				NO. OF SECTIONS
	(Loss < 1.2dB) Max.	(Loss 3 dB) Typ	F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-500	DC-500	750	900	1100-20000	10	1.15	21

Typical Frequency Response

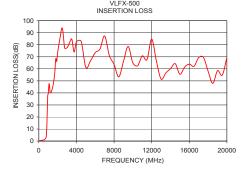


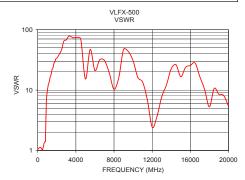
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
50	0.29	1.06	
150	0.38	1.11	
375	0.71	1.10	
500	0.94	1.03	
575	1.17	1.13	
650	1.53	1.29	
750	2.70	1.39	
820	7.04	1.70	
900	25.98	6.19	
1100	47.73	12.07	
2000	73.43	33.59	
3000	77.47	67.57	
4000	82.46	74.00	
5000	61.14	15.25	
7500	70.97	19.22	
10000	64.81	30.61	
12500	66.48	3.65	
15000	55.46	16.68	
17500	69.61	10.20	
20000	69.43	5.42	





Mini-Circuits

For detailed performance specs