

Coaxial

Low Pass Filter

DC to 500 MHz (40 dB Isolation up to 20 GHz)

NEW!

VLFX-500

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

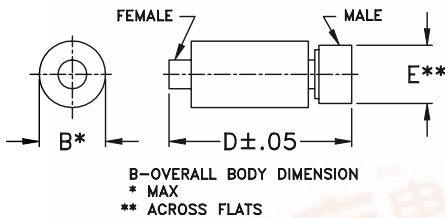
Applications

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



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

Outline Drawing



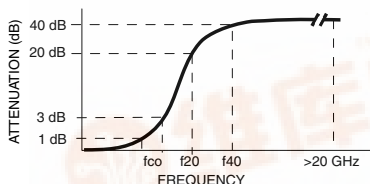
Outline Dimensions (inch)

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

Functional Schematic



Typical Frequency Response

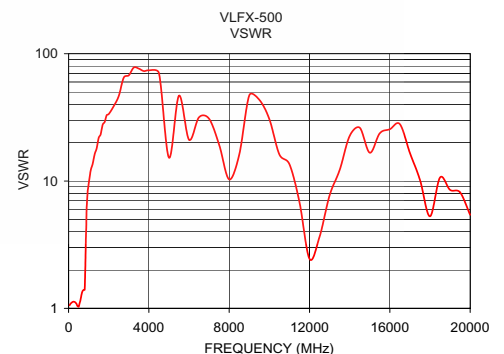
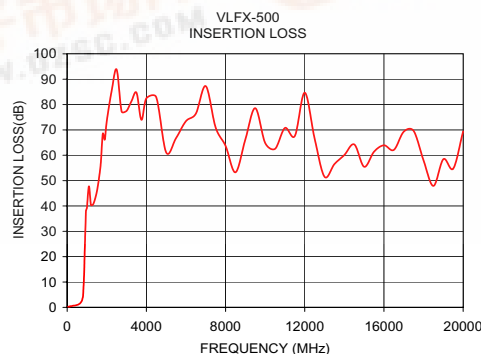


Low Pass Filter Electrical Specifications @ 25°C

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-500	DC-500	750	900	1100-20000	10	1.15	21

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
775	3.55	1.40
820	7.04	1.70
880	19.98	4.37
1000	39.25	9.44
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



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REV. OR
M96318
VLFX-500
FDU-0399