Coaxial

Low Pass Filter

DC to 400 MHz (40 dB Isolation up to 20 GHz)

NEW!

VLFX-400

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

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.*

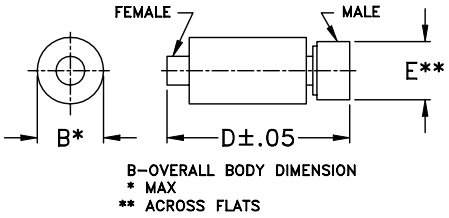
Features

- 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

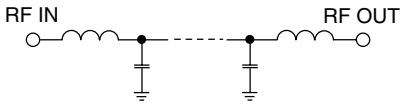
Outline Drawing



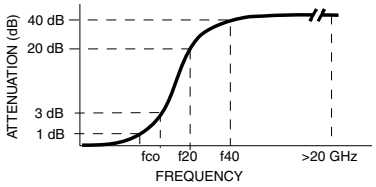
Outline Dimensions (inch / mm)

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

Functional Schematic



Typical Frequency Response

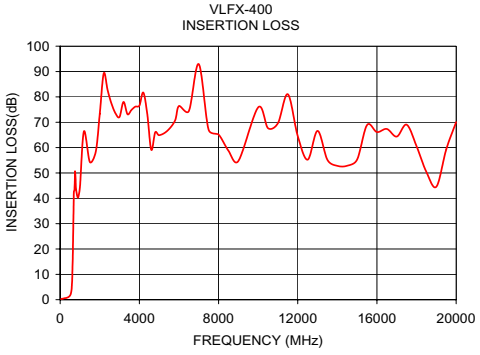


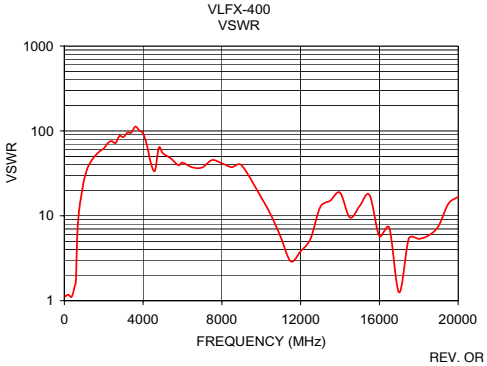
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (Loss < 1.2dB) Max.	fco, MHz Nom (Loss 3 dB) Typ	STOPBAND (MHz) (Loss, dB) f20 Min.	STOPBAND (MHz) (Loss, dB) f40 Typ.	VSWR (:1) Stopband Typ.	VSWR (:1) Passband Typ.	NO. OF SECTIONS
VLFX-400	DC-400	540	670	900-20000	10	1.15	21

Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.22	1.12
100	0.38	1.15
200	0.55	1.17
400	0.97	1.15
450	1.23	1.24
500	1.67	1.39
560	3.11	1.55
600	6.73	2.09
650	22.21	5.47
690	42.19	8.23
800	43.74	14.22
1000	44.36	26.35
3000	72.09	84.69
5000	64.87	54.70
7500	67.01	45.36
10000	75.88	16.45
12500	55.24	5.36
15000	55.32	13.07
17500	69.03	5.42
20000	70.03	16.72





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