

Low Pass Filter

VLFX-540

50Ω DC to 540 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

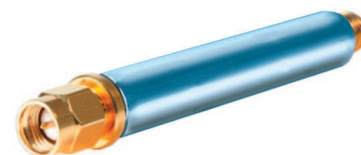
*Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

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



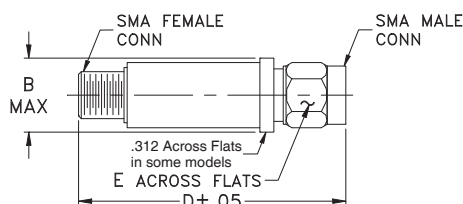
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-540	\$39.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



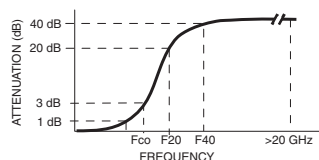
Outline Dimensions (inch mm)

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

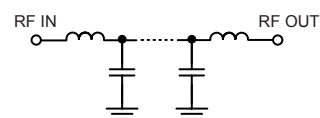
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz)	Fco, MHz Nom	STOPBAND (MHz) (Loss, dB)		VSWR (:1)		NO. OF SECTIONS
	(Loss < 1.2dB) Max.	(Loss 3 dB) Typ	F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-540	DC-540	810	1000	1100-20000	10	1.2	21

Typical Frequency Response



Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.32	1.07
250	0.46	1.09
400	0.69	1.06
540	0.95	1.15
620	1.21	1.24
700	1.64	1.28
810	3.08	1.25
880	8.81	3.45
1000	32.81	10.22
1100	46.43	13.44
1500	50.47	26.44
2000	65.72	39.98
3000	73.08	74.63
5000	61.13	68.07
7500	70.11	49.82
10000	80.55	29.49
12500	72.73	4.71
15000	78.70	21.69
17500	67.07	4.77
20000	56.88	12.07

