

Coaxial Low Pass Filter

DC to 540 MHz (40 dB Isolation up to 20 GHz)

NEW!
VLFX-540

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

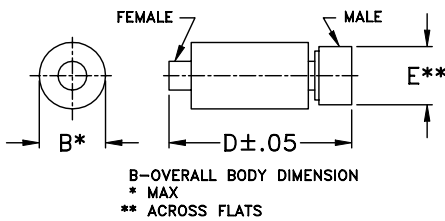


CASE STYLE: FF1118
PRICE: \$ 39.95 ea. QTY (1-9)

Applications

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

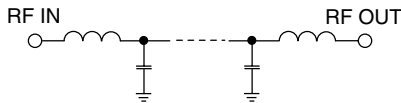
Outline Drawing



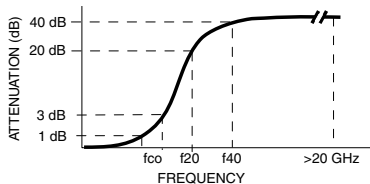
Outline Dimensions (inch/mm)

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)		VSWR (:1)		NO. OF SECTIONS
			f20 Min.	f40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-540	DC-540	810	1000	1150-20000	10	1.2	21

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
550	0.97	1.17
620	1.21	1.24
700	1.64	1.28
820	3.57	1.33
880	8.81	3.45
960	23.09	8.60
1025	41.04	10.94
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

