Coaxial

Low Pass Filter

VLFX-225

50Ω DC to 225 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

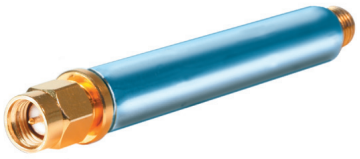
*Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

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

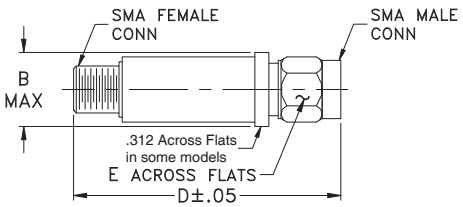


CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-225	$39.95 ea.	(1-9)

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

Outline Drawing



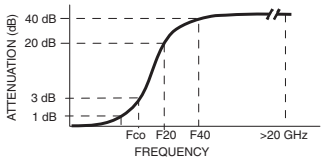
Outline Dimensions (inch / mm)

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

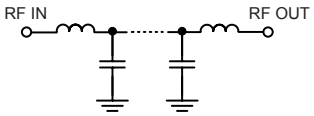
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (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-225	DC-225	350	460	520-20000	10	1.15	21

Typical Frequency Response

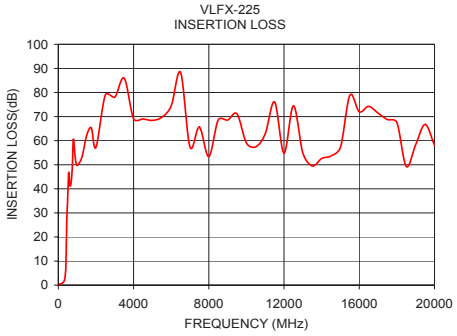


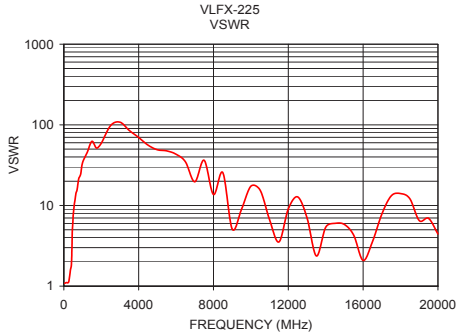
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.18	1.08
100	0.52	1.10
160	0.61	1.11
225	0.92	1.10
260	1.16	1.13
300	1.52	1.28
350	3.09	1.56
400	6.96	1.78
460	28.98	5.16
520	41.12	8.40
600	41.60	11.87
750	49.81	18.37
1000	49.72	33.93
2500	78.92	98.08
5000	68.41	49.08
7500	65.61	36.38
10000	59.00	17.35
12500	74.50	12.80
15000	57.27	5.82
20000	58.14	4.44





For detailed performance specs & shopping online see web site

REV. B
M131810
VLFX-225
EDU-0399
ED-11930A/3
URJ/AD/CP
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