Coaxial

Low Pass Filter

VLFX-1300

50Ω DC to 1300 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

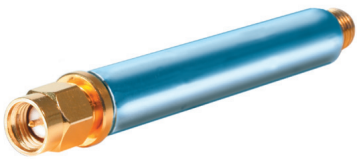
*Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

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

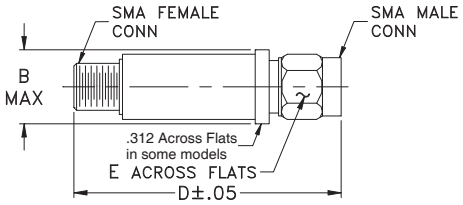


CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-1300	$39.95 ea.	(1-9)

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

Outline Drawing



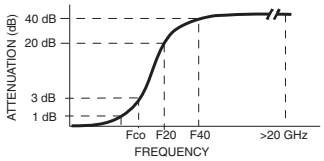
Outline Dimensions (inch / mm)

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

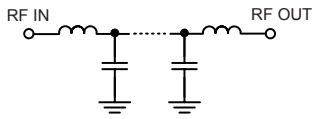
Low Pass Filter Electrical Specifications @ 25°C

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-1300	DC-1300	1925	2300	2500-20000	10	1.2	21

Typical Frequency Response

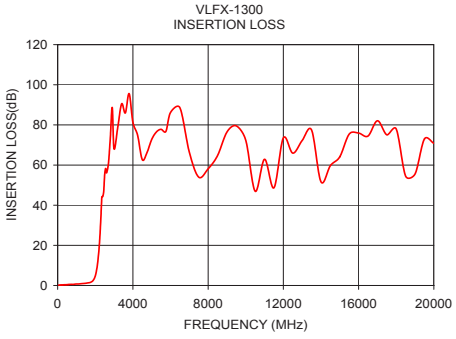


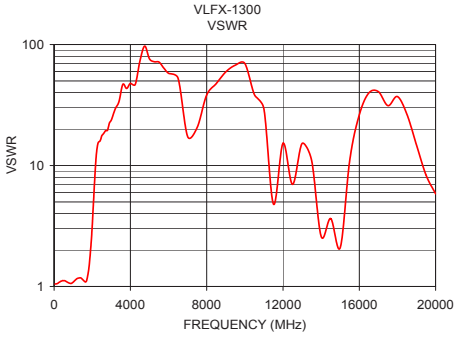
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.21	1.05
300	0.34	1.09
600	0.46	1.11
1300	0.95	1.18
1600	1.27	1.10
1750	1.58	1.20
1850	2.14	1.56
1925	3.07	2.15
2100	9.35	6.43
2300	33.88	15.28
2500	55.25	17.62
3000	68.08	23.79
4000	81.32	47.72
5000	72.73	76.04
7500	53.99	20.63
10000	72.31	69.62
12500	65.95	6.98
15000	64.17	2.10
17500	75.05	31.26
20000	70.82	5.83





REV. B
M131810
VLFX-1300
EDU-0399
ED-11930A/18
URJ/AD/CP
130319