Coaxial

Low Pass Filter

VLFX-1100

50Ω DC to 1100 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.*

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

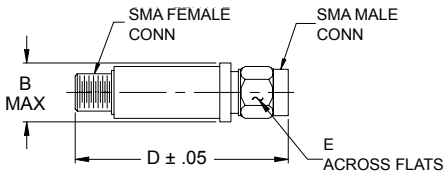
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-1100	$39.95 ea.	(1-9)

Applications

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

Outline Drawing



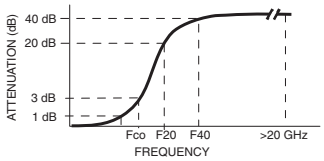
Outline Dimensions (inch / mm)

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

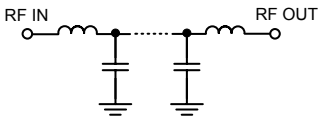
Low Pass Filter Electrical Specifications @ 25°C

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-1100	DC-1100	1750	2070	2300-20000	10	1.4	21

Typical Frequency Response



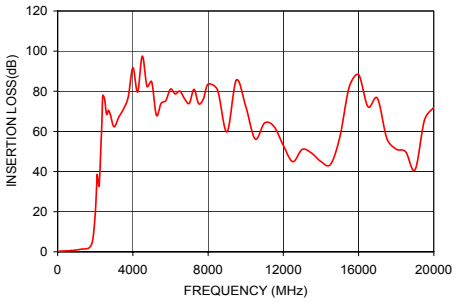
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.31	1.06
350	0.40	1.07
700	0.69	1.12
1100	1.03	1.46
1200	1.24	1.54
1400	1.42	1.47
1600	1.68	1.13
1750	2.92	1.66
1900	8.30	4.14
2070	31.74	10.16
2300	52.14	17.07
3000	62.27	28.86
4000	91.73	33.84
5000	84.76	52.10
7500	73.80	39.07
10000	72.42	41.17
12500	44.93	9.18
15000	57.16	2.65
17500	56.53	20.82
20000	72.04	2.69

VLFX-1100
INSERTION LOSS



VLFX-1100
VSWR