

Coaxial Low Pass Filter

50Ω DC to 1050 MHz (40 dB Isolation up to 20 GHz)

VLFX-1050+ VLFX-1050



CASE STYLE: FF1118

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

Applications

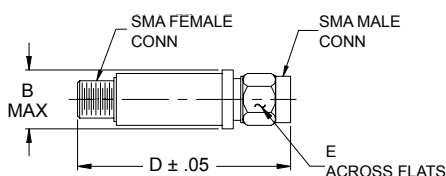
- harmonic rejection
- transmitters/receivers
- lab use
- test instrumentation

Connectors	Model	Price	Qty.
SMA	VLFX-1050+	\$39.95 ea.	(1-9)
SMA	VLFX-1050	\$39.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Outline Drawing



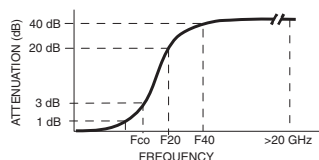
Outline Dimensions (inch/mm)

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

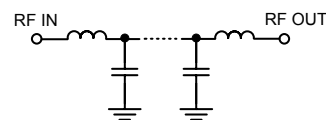
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (Loss < 1.2dB) Max.	Fco, MHz Nom (Loss 3 dB) Typ	STOPBAND (MHz) (Loss, dB)		VSWR (:1)		NO. OF SECTIONS
			F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-1050(+)	DC-1050	1675	1990	2100-20000	10	1.4	21

Typical Frequency Response

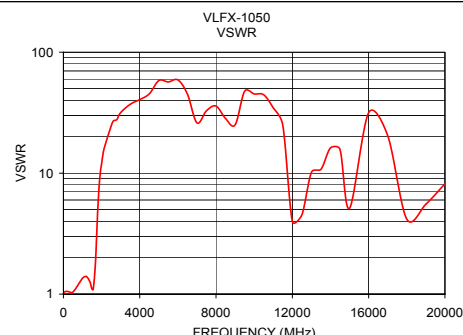
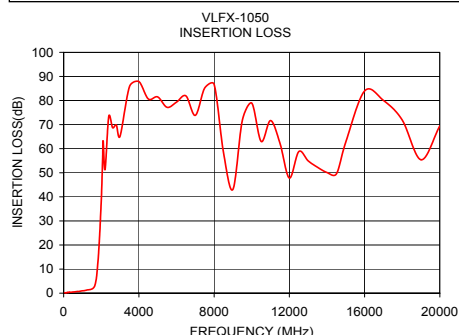


Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.21	1.04
400	0.41	1.03
750	0.73	1.18
1050	1.00	1.38
1200	1.21	1.40
1450	1.58	1.17
1675	3.70	1.84
1750	6.88	3.26
1850	15.92	6.97
1990	36.74	11.68
2100	63.21	15.18
4000	87.87	40.57
6000	79.32	59.00
8000	86.66	35.85
10000	78.90	45.17
12000	47.80	3.99
14000	50.11	16.18
16000	83.95	31.61
18000	71.89	4.18
20000	69.48	8.16



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RF/IF MICROWAVE COMPONENTS

REV. B
M119573
VLFX-1050
EDU-0399
ED-11930A/15
URJ/RS/CP
080922
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