# **Low Pass Filter**

# **VLFX-400**

## $50\Omega$ DC to 400 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

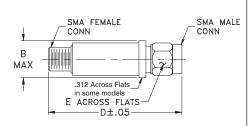
CASE STYLE: FF1118

Connectors	Model	Price	Qty.	
SMA	VLFX-400	\$39.95 ea.	(1-9)	

+RoHS Compliant

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

#### **Outline Drawing**



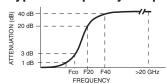
#### Outline Dimensions (inch)

wt.	Е	D	В
grams	.312	2.67	.410
17.0	7 92	67.82	10./1

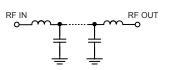
# Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz)	Fco, MHz Nom	STOPBAND (MHz) (Loss, dB)		VSWR (:1)		NO. OF SECTIONS
	(Loss < 1.2dB) Max.	(Loss 3 dB) Typ	F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-400	DC-400	540	670	700-20000	10	1.15	21

#### **Typical Frequency Response**



#### **Functional Schematic**

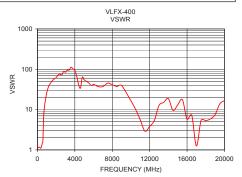


### Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
50	0.22	1.12	
100	0.38	1.15	
200	0.55	1.17	
400	0.97	1.15	
450	1.23	1.24	
500	1.67	1.39	
540	2.42	1.51	
600	6.73	2.09	
670	32.49	6.86	
700	42.85	8.74	
800	43.74	14.22	
1000	44.36	26.35	
3000	72.09	84.69	
5000	64.87	54.70	
7500	67.01	45.36	
10000	75.88	16.45	
12500	55.24	5.36	
15000	55.32	13.07	
17500	69.03	5.42	
20000	70.03	16.72	



VLFX-400



Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs

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Provides ACTUAL Data Instantly at minicipulits.com

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