ow Pass Filter

VLFX-105

DC to 105 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

Applications

• lab use

· harmonic rejection

· test instrumentation

• transmitters/receivers

- excellent power handling, 10W
- temperature stable LTCC internal structure
- re-entry frequency > 20 GHz
- rugged unibody construction
- protected by US patent 6,943,646

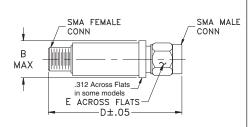
CASE STYLE: FF1118

Connectors	Model	Price	Qty.	
SMA	VLFX-105	\$39.95 ea.	(1-9)	

+RoHS Compliant

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

Outline Drawing



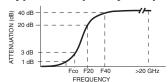
Outline Dimensions (inch)

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

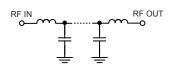
Low Pass Filter Electrical Specifications @ 25°C

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MODEL NO.	PASSBAND (MHz)	Fco, MHz 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-105	DC-105	165	250	400-20000	10	1.2	21]

Typical Frequency Response

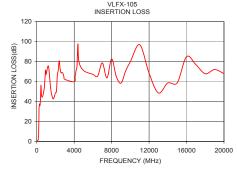


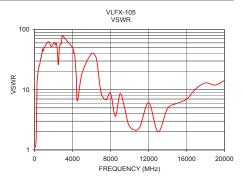
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.63	1.13
80	0.81	1.12
105	1.00	1.13
114	1.13	1.17
120	1.22	1.19
140	1.51	1.32
165	3.18	1.70
200	6.70	4.53
250	33.72	13.14
400	42.35	21.10
500	46.66	24.83
750	50.37	39.03
1000	67.08	49.17
2500	72.46	26.01
5000	70.98	18.90
7500	63.56	6.76
10000	79.87	2.45
12000	68.30	6.09
16000	84.80	6.95
20000	67.90	14.23





Mini-Circuits

For detailed performance specs

ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine
Provides ACTUAL Data Instantly at minicipality.com

RFV B M131810 VLFX-105 EDU-0399 ED-11930A/2 URJ/AD/CP 130319

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