ow Pass Filter

LFX-825

DC to 825 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* 1	0W 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

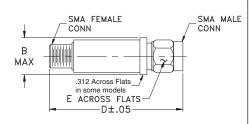
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-825	\$39.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



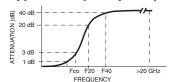
Outline Dimensions (inch)

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

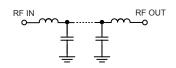
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz)					R (:1)	NO. OF SECTIONS
	(Loss < 1.2dB) Max.	(Loss 3 dB) Typ	F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-825	DC-825	1275	1550	1850-20000	10	1.20	21

Typical Frequency Response

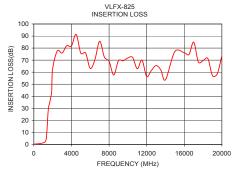


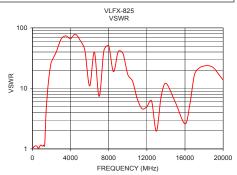
Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
50	0.21	1.04	
250	0.34	1.11	
500	0.56	1.09	
825	0.95	1.14	
950	1.19	1.15	
1100	1.58	1.11	
1275	3.33	1.18	
1400	11.97	3.20	
1550	29.79	7.49	
1850	41.44	20.81	
2000	62.70	27.62	
3000	75.79	64.73	
4000	81.73	66.53	
5000	75.62	62.40	
7500	72.55	42.41	
10000	71.84	17.08	
12500	61.43	6.17	
15000	77.23	5.85	
17500	68.24	21.82	
20000	73.81	13.68	





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 minicipuits.com

RFV B M131810 VLFX-825 EDU-0399 ED-11930A/12 URJ/RS/CP 130319 Page 1 of 1