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*	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

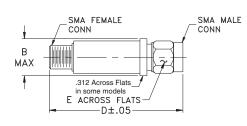
CASE STYLE: FF1118

Connectors Model **VLFX-825**

+RoHS Compliant

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

Outline Drawing



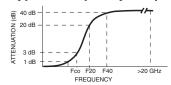
Outline Dimensions (inch)

wt.	Е	D	В
grams	.312	2.67	.410
17.0	7 92	67.82	10.41

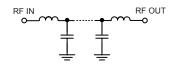
Low Pass Filter Electrical Specifications @ 25°C

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-825	DC-825	1275	1550	1850-20000	10	1.20	21

Typical Frequency Response

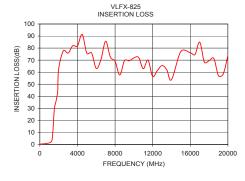


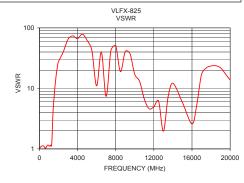
Functional Schematic



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	





- Notes
 A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp