Coaxial ow Pass Filter

DC to 300 MHz (40 dB Isolation up to 20 GHz) 50Ω

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, 10Wtemperature 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

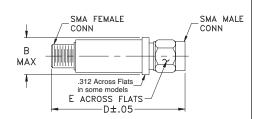




CASE STYLE: FF1118				
Connectors	Model	Price	Qty.	
SMA	VLFX-300	\$39.95 ea.	(1-9)	

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

Outline Drawing



Outline Dimensions (inch)

			× mm
В	D	E	wt.
.410	2.67	.312	grams
10.41	67.82	7.92	17.0

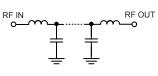
Low Pass Filter Electrical Specifications @ 25°C

r	NODEL NO.	PASSBAND (MHz)	Fco, MHz Nom	STOPBAND (MHz) (Loss, dB)				NO. OF SECTIONS
		(Loss < 1.2dB) Max.	(Loss 3 dB) Typ	F20 Min.	F40 Typ.	Stopband Typ.	Passband Typ.	
V	/LFX-300	DC-300	450	580	650-20000	10	1.15	21

Typical Frequency Response

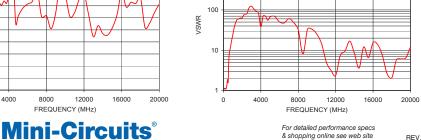
40 dB 9 20 dB ATTENUATION 3 dB 1 dB Fco F20 F40 >20 GHz FREQUENCY

Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.38	1.16
100	0.39	1.09
200	0.64	1.11
300	0.95	1.11
350	1.21	1.28
400	1.79	1.58
450	2.85	1.88
500	6.46	1.56
580	29.41	5.57
650	41.12	8.93
800	38.18	13.79
900	44.02	18.40
1000	60.37	23.84
2500	79.10	80.35
5000	61.32	67.53
7500	60.77	49.08
10000	79.72	24.86
12500	62.16	7.48
15000	51.60	12.04
20000	71.48	12.03
VLFX-300 INSERTION LOSS		VLFX-300 VSWR
100	1000 E	
90		
80		
70	100	



For detailed performance specs & shopping online see web site

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 minicipation of the second IF/RF MICROWAVE COMPONENTS

8000

12000

FREQUENCY (MHz)

4000

INSERTION 50 40

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established tests performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and terms and conditions (collective), "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 performance therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

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