

Coaxial

Low Pass Filter

DC to 480 MHz (40 dB Isolation up to 20 GHz)

NEW!

VLFX-480

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
- temperature stable LTCC internal structure
- patent pending
- re-entry frequency > 20 GHz
- rugged stainless steel unibody

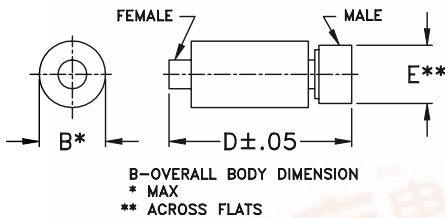
Applications

- harmonic rejection
- transmitters/receivers
- lab use
- test instrumentation



CASE STYLE: FF1118
PRICE: \$ 39.95 ea. QTY (1-9)

Outline Drawing



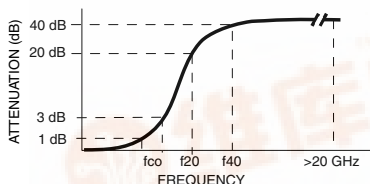
Outline Dimensions (inch)

B	D	E	wt.
.39	2.67	.312	grams
9.91	67.82	7.92	17.0

Functional Schematic



Typical Frequency Response

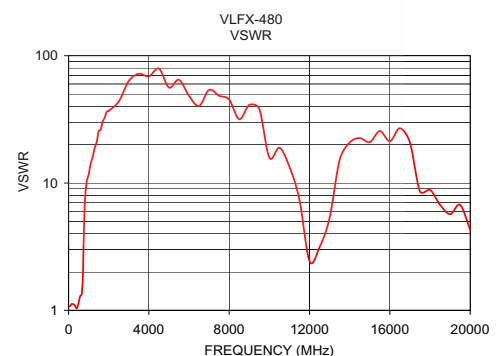
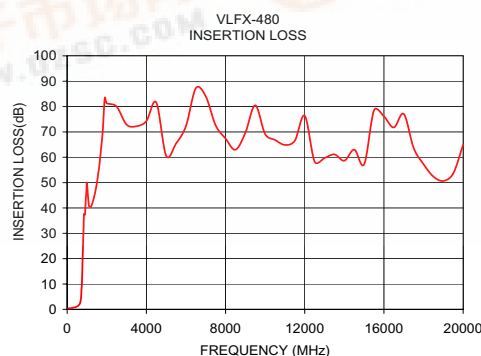


Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (Loss < 1.2dB) Max.	fco, MHz Nom (Loss 3 dB) Typ	STOPBAND (MHz) (Loss, dB)		VSWR (:1)		NO. OF SECTIONS
			f20 Min.	f40 Typ.	Stopband Typ.	Passband Typ.	
VLFX-480	DC-480	675	820	1000-20000	10	1.15	21

Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.39	1.07
150	0.39	1.12
320	0.72	1.08
480	1.06	1.11
520	1.23	1.18
575	1.57	1.28
650	2.40	1.33
740	9.89	2.85
780	19.55	5.00
925	40.83	10.64
975	47.08	11.29
1000	49.80	11.57
2500	79.98	43.65
5000	60.62	56.18
7500	72.60	48.49
10000	69.11	15.82
12500	58.22	3.13
15000	57.24	20.96
17500	63.67	8.59
20000	64.93	4.31



Mini-Circuits®

INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

REV. OR
M96318
VLFX-480
FDU-0399