

Coaxial Low Pass Filter

VLFX-780

50Ω DC to 780 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.

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



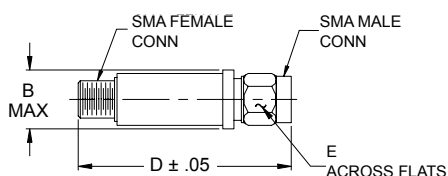
CASE STYLE: FF1118

Connectors	Model	Price	Qty.
SMA	VLFX-780	\$39.95 ea.	(1-9)

Applications

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

Outline Drawing



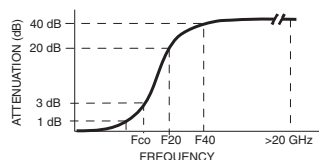
Outline Dimensions (inch/mm)

B	D	E	wt.
.410	2.67	.312	grams
10.41	67.82	7.92	17.0

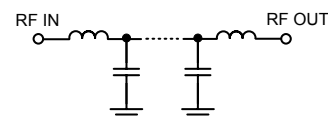
Low Pass Filter Electrical Specifications @ 25°C

MODEL NO.	PASSBAND (MHz) (Loss < 1.3dB) 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-780	DC-780	950	1450	1600-20000	10	1.25	21

Typical Frequency Response

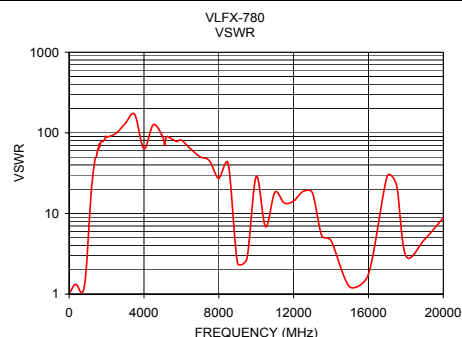
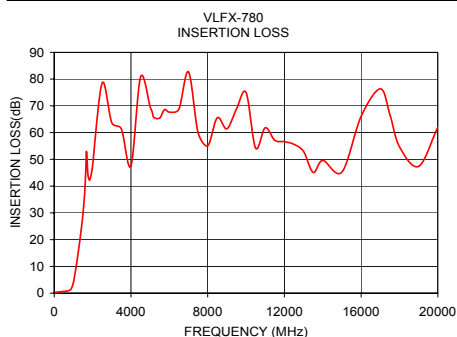


Functional Schematic



Typical Performance Data @ 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.20	1.07
200	0.42	1.23
500	0.67	1.20
780	1.00	1.15
840	1.24	1.38
900	1.80	1.89
950	2.71	2.73
1050	5.85	6.43
1450	26.42	50.23
1600	38.96	69.51
1750	44.97	78.34
2000	47.85	88.41
2500	78.54	98.33
5000	69.60	89.14
7500	59.97	45.09
10000	74.94	28.77
12500	55.61	18.76
15000	45.26	1.23
17500	66.73	22.68
20000	62.04	8.82



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RF/MICROWAVE COMPONENTS

REV. B
M108648
VLFX-780
EDU-0399
ED-11930A/10
UR/JAD/CP
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