Coaxial **Low Pass Filter**

VLFX-1125+

DC to 1125 MHz (30 dB Typ. Isolation up to 20 GHz) 50Ω



Connectors

SMA

CASE STYLE: FF1118

Model

VLFX-1125+

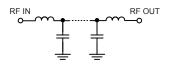
Features

- Very good isolation, 30 dB typ. up to 20 GHz
- · Excellent power handling, 10W
- Temperature stable LTCC internal structure
- Re-entry frequency > 20 GHz
- Protected by US patent 6,943,646
- Rugged unibody construction

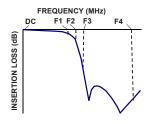
Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use
- · Test instrumentation

Functional Schematic



Typical Frequency Response



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

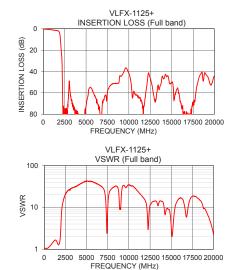
Electrical Specifications ⁽¹⁾ at 25°C								
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit	
Pass Band	Insertion Loss	DC-F1	DC-1125	—	1.5	2.5	dB	
	Freq. Cut-Off	F2	1850	_	3.0	_	dB	
	VSWR	DC-F1	DC-1125	—	1.9	_	:1	
Stop Band	Insertion Loss	F3-F4	2200-20000	20	30	—	dB	
	VSWR	F3-F4	2200-20000	—	10	—	:1	

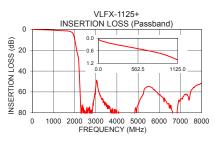
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

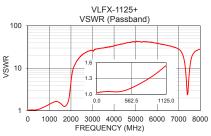
Maximum Ratings					
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input*	10W max.				
*Passband rating, derate linearly to 3.5W at 100°C ambient.					

Permanent damage may occur if any of these limits are exceeded. Typical Performance Data at 25°C

I	Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
	10	0.07	1.03
	500	0.47	1.09
	1125	1.04	1.54
	1850	2.66	1.54
	1900	3.51	1.88
	2000	9.27	4.80
	2100	20.17	9.63
	2190	29.62	12.35
	2200	32.78	12.71
	2500	84.94	20.22
	3000	55.00	26.33
	4000	87.03	34.07
	5000	71.97	42.38
	7500	58.79	8.81
	10000	41.71	34.07
	12500	46.35	11.24
	15000	50.20	3.48
	17500	69.97	18.50
	19000	42.85	9.08
	20000	44.32	2.25







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. G. The parts covered by this specification document are subject to Mini-Circuits trandard 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

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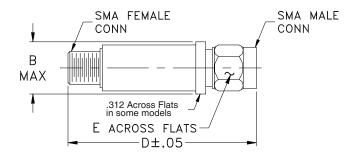
REV OR M162426 VLFX-1125+ EDU2684 URJ 170805 Page 1 of 2



Coaxial Connections

INPUT SMA-Male OUTPUT SMA-Female

Outline Drawing



Outline Dimensions (inch)

в	D	Е	wt.
.410	2.67	.312	grams
10.41	67.82	7.92	17.0

Notes
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