

# Low Pass Filter

## VLF-7200+

50Ω \*DC to 7200 MHz



CASE STYLE: FF704

Connectors	Model
SMA	VLF-7200+

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W at 25°C
DC Current Input to Output	0.5A max. at 25°C

\*Passband rating, derate linearly to 3 W at 100°C ambient  
Permanent damage may occur if any of these limits are exceeded.

### Features

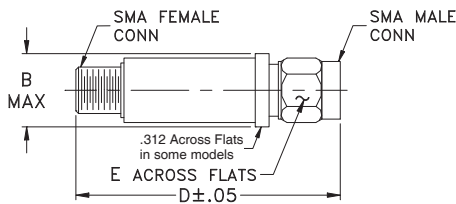
- Rugged uni-body construction, small size
- 7 sections
- Excellent power handling, 8W
- Temperature stable
- Low cost
- Protected by US Patent 6,943,646

### Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use

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

### Outline Drawing

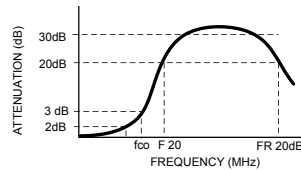


### Low Pass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

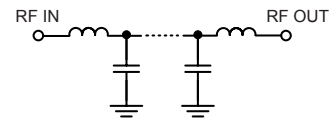
PASSBAND (MHz)	f <sub>co</sub> , MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
(loss < 2 dB) Max.	(loss 3 dB) Typ.						
*DC - 7200	8150	9500	8850 - 9600	12300	17	1.3	7

\* Not for use with DC voltage at input and output ports

### Typical frequency response



### Electrical schematic



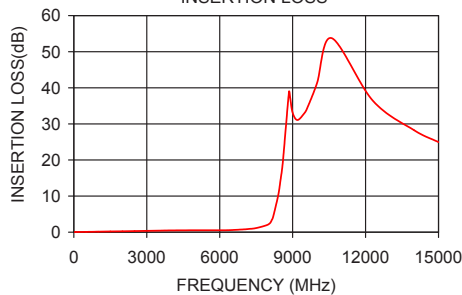
### Outline Dimensions (inch/mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

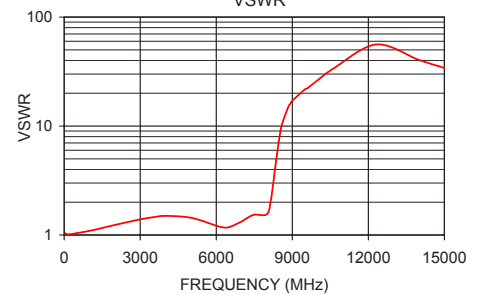
### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.06	1.04
500	0.09	1.04
2000	0.25	1.24
3600	0.45	1.46
6000	0.53	1.22
7200	0.89	1.42
8000	2.15	1.55
8150	3.48	2.07
8320	7.22	4.05
8500	14.32	8.08
8730	28.60	12.99
8850	38.88	15.13
9500	33.12	21.73
9600	34.36	22.29
10500	52.18	32.79
12300	36.42	56.04
15000	24.94	34.07

VLF-7200+  
INSERTION LOSS



VLF-7200+  
VSWR



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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](http://www.minicircuits.com/MCLStore/terms.jsp)



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