ow Pass Filter

VLF-3800+

50Ω *DC to 3900 MHz

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

Outline Drawing

SMA FEMALE

.312 Across Flats

Outline Dimensions (inch)

1.43

36.32

Ε

grams

10

.312

7.92

E ACROSS FLATS -D±.05

В

.410

10.41

R MAX

*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

CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VLF-3800+	\$ 21.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

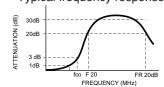
SMA MALE CONN

Low Pass Filter Electrical Specifications (T_{AMB}= 25°C)

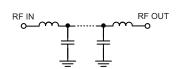
PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
(loss < 1 dB) Max.	(loss 3 dB) Typ.	F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC-3900	4850	6000	5700-8300	13000	17	1.3	7

^{*} Not for use with DC voitage at input and output ports

Typical frequency response



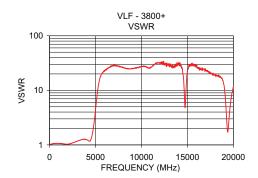
Electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
40	0.01	1.03	
1550	0.28	1.04	
3060	0.47	1.18	
3900	0.65	1.27	
4510	1.00	1.27	
4760	1.87	2.01	
4850	2.60	2.60	
4930	3.55	3.39	
5120	7.00	6.76	
5380	14.48	14.03	
5700	30.38	20.22	
6000	30.58	22.87	
8300	36.33	25.56	
13000	35.19	31.03	
20000	10.55	11.46	

VI F - 3800+ INSERTION LOSS 60 <u>용</u> 50 INSERTION LOSS(d 10000 15000 20000 FREQUENCY (MHz)



For detailed performance specs & shopping online see web site

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