Coaxial

Low 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

**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

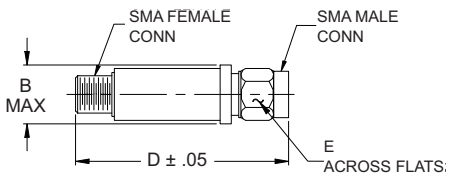
CASE STYLE: FF704

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.

Outline Drawing



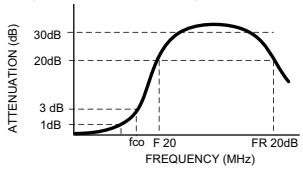
Outline Dimensions (inch / mm)

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

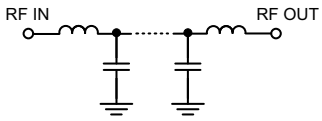
Low Pass Filter Electrical Specifications (T_{AMB}= 25°C)

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

Typical frequency response

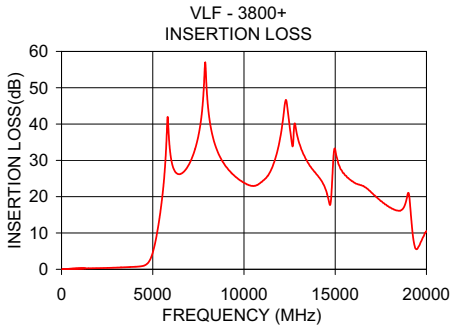


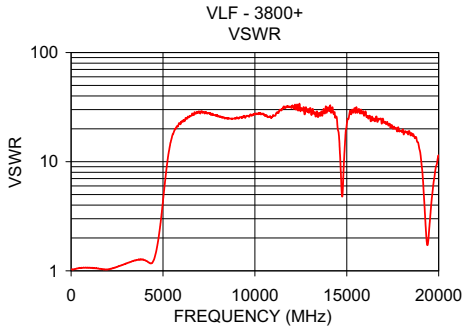
Electrical schematic



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





REV. OR
M105810
EDR-7684/1A
VLF-3800+
RAV
090826