

Low Pass Filter

50Ω

*DC to 3400 MHz

VLF-3400+



CASE STYLE: FF704

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 3W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Features

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

Applications

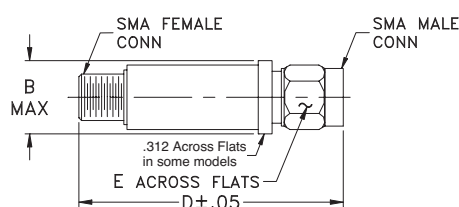
- Point to point
- Harmonic rejection
- Transmitters/receivers
- Lab use

Connectors	Model	Price	Qty.
SMA	VLF-3400+	\$21.95 ea.	(1-9)

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch mm)

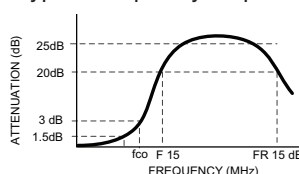
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

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

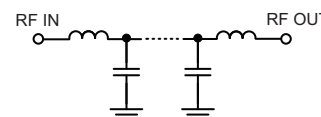
PASSBAND (MHz)	f _{co} , MHz Nom.	STOP BAND (MHz)			VSWR (:1)		NO. OF SECTIONS
		(loss < 1.5 dB) Max.	(loss 3 dB) Typ.	(loss 15 dB) Typ.	Stopband Typ.	Passband Typ.	
*DC - 3400	3950	4300	4600 - 7800	8300	17	1.2	5

*Not for use with DC voltage 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	1.01
100	0.03	1.01
500	0.08	1.05
1000	0.15	1.12
2000	0.29	1.29
3000	0.58	1.58
3400	0.85	1.74
3800	1.61	1.83
3950	3.15	2.29
4050	6.53	3.73
4150	13.83	6.91
4300	26.75	12.18
4600	24.94	20.45
5050	23.14	27.16
6500	23.33	36.97
7800	29.30	45.72
8300	21.56	35.46

