

# Low Pass Filter

## VLF-4400+

50Ω \*DC to 4400 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



CASE STYLE: FF704

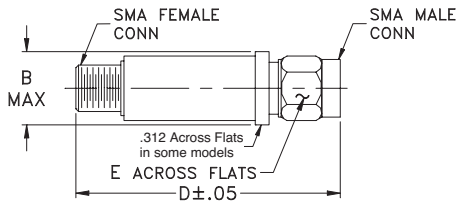
Connectors	Model	Price	Qty.
SMA	VLF-4400+	\$ 21.95 ea.	(1-9)

### 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



### Outline Dimensions (inch/mm)

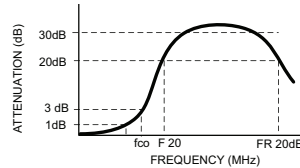
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

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

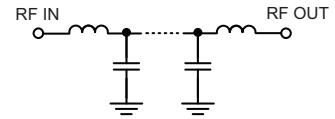
PASSBAND (MHz) (loss < 1 dB) Max.	f <sub>co</sub> , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC-4400	5290	6700	6280-9800	13000	17	1.2	7

\* 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)
50	0.05	1.03
320	0.12	1.05
1340	0.23	1.05
3740	0.55	1.27
4400	0.73	1.33
5170	1.79	1.90
5290	2.69	2.62
5580	7.10	6.76
5860	14.01	13.81
6280	30.56	21.46
6700	31.54	25.56
7400	29.23	27.16
9800	33.62	28.03
13000	40.36	34.75
20000	18.06	15.00

