

# Low Pass Filter

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

## Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use

# VLF-4400+



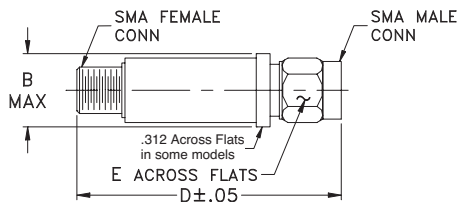
CASE STYLE: FF704

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

## +RoHS Compliant

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

## Outline Drawing

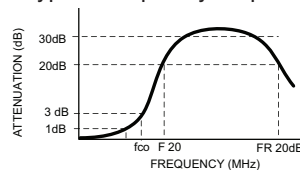


## Low Pass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

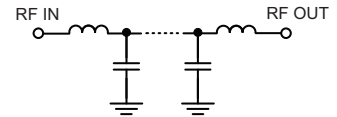
PASSBAND (MHz)	f <sub>co</sub> , MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20 Min.	30 Typ.	FR 20 Typ.	Stopband Typ.	Passband Typ.	
*DC-4400	5290	6700	6280-9800	13000	17	1.2	7

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

## Typical frequency response



## Electrical schematic



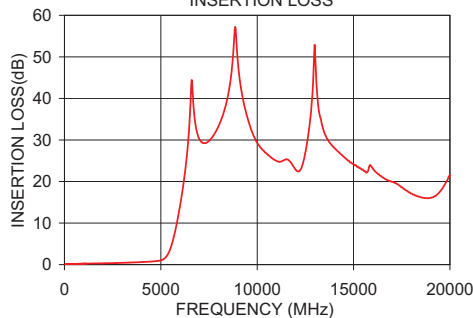
## Typical Performance Data at 25°C

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

## Outline Dimensions (inch mm)

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

VLF - 4400+  
INSERTION LOSS



VLF - 4400+  
VSWR

