

# High Pass Filter

## VHF-4400+

50Ω 5000 to 10100 MHz

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W 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
- Temperature stable
- Excellent power handling, 6W
- Low cost

### Application

- Sub-harmonic rejection and DC blocking
- Transmitters/Receivers
- Lab use



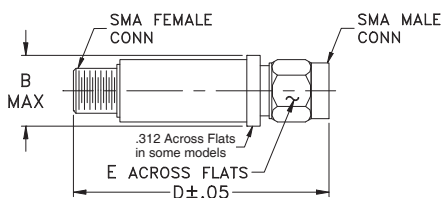
CASE STYLE: FF704

Connectors	Model
SMA	VHF-4400+

**+RoHS Compliant**

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

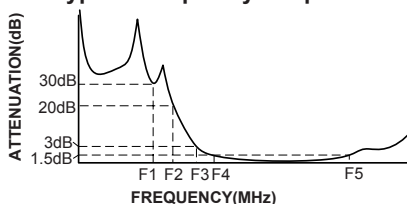
### Outline Drawing



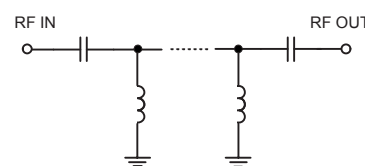
### High Pass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

STOPBAND (MHz)		f <sub>co</sub> , MHz	PASSBAND (MHz)		VSWR		NO. OF SECTIONS
(Loss>30dB)	(Loss>20dB)	Nom.	(Loss<1.5dB)	(Loss<2dB)	Typ.	Frequency (MHz)	
Typ. DC-F1	Min. DC-F2	Typ. F3	Max. F4-F5	Max.			
DC-3600	DC-3500	4400	5000-9900	5000-10100	20:1	4600-10100	5

### Typical Frequency Response



### Electrical schematic

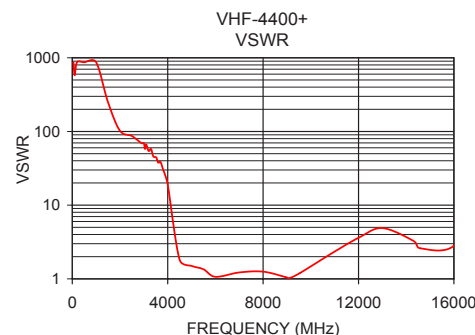
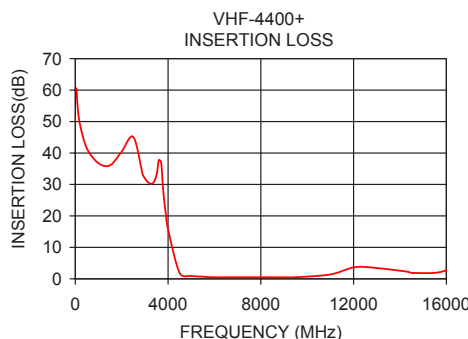


### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	60.59	868.59
500	41.41	868.59
2500	45.12	86.86
3500	32.77	51.10
3600	37.78	37.77
3850	23.77	30.49
4050	13.48	16.26
4200	7.79	7.80
4400	2.95	2.72
4600	1.32	1.43
5000	0.93	1.50
9900	0.63	1.42
10100	0.72	1.56
10500	0.94	1.84
11500	1.97	2.86
13000	3.42	4.89
16000	2.77	2.83

### Outline Dimensions (inch mm)

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



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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