

# Coaxial High Pass Filter

## VHF-2100+

50Ω 2200 to 6000 MHz



Generic photo used for illustration purposes only

### 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 unibody construction, small size
- 7 sections
- temperature stable
- excellent power handling, 7W
- low cost

### Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use

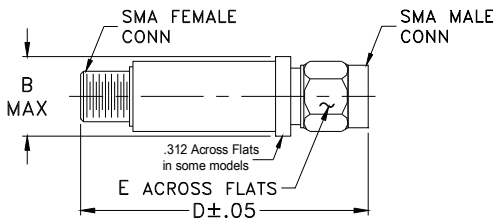
CASE STYLE: FF704

Connectors	Model
SMA	VHF-2100+

**+RoHS Compliant**

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

### Outline Drawing



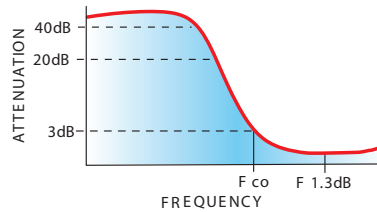
### Outline Dimensions (inch/mm)

B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

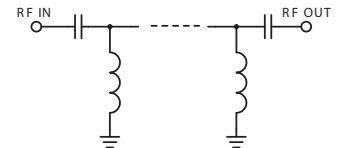
### Electrical Specifications (T<sub>AMB</sub>=25°C)

STOP BAND (MHz)		f <sub>co</sub> , MHz	PASSBAND (MHz)		VSWR (:1)		NO. OF SECTIONS
Min.	Typ.	Nom.	(loss < 1.3 dB)	(loss < 2 dB)	Typ.	Frequency (MHz)	
(loss > 40 dB)	(loss > 20 dB)	Typ.	Max.	Typ.	Stopband	1.5:1	7
1050	1530	2100	2500-5000	2200-6000	20:1	2400-5200	

### typical frequency response

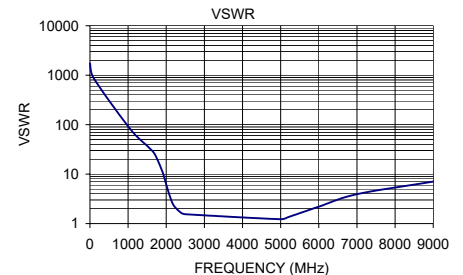


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	87.12	1737.18
100	70.11	868.59
1050	47.19	82.73
1530	25.96	35.46
1700	18.32	25.19
1900	9.49	11.24
2000	5.80	6.21
2100	3.28	3.47
2200	1.97	2.29
2400	1.14	1.63
2500	1.01	1.55
5000	0.45	1.23
5200	0.51	1.35
6000	1.11	2.20
7000	2.43	3.94
9000	4.57	7.08



### 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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