

High Pass Filter

50Ω, 9000 to 13000 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 7W*

*derate linearly to 3W at 100°C ambient

Features

- Low Cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling, 7W
- DC block in/out, breakdown voltage, 1kV typ.

Application

- Sub-harmonic rejection and DC blocking
- Transmitters/Receivers
- Lab Use
- Instrumentation
- Test equipment



CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VHF-8400-S	\$24.95 ea.	(1-9)
SMA	VHF-8400-S+	\$24.95 ea.	(1-9)

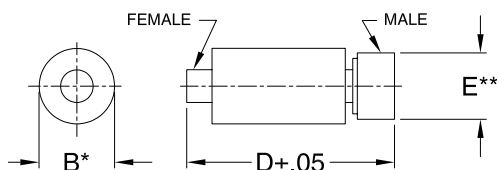
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

See our web site for RoHS Compliance methodologies and qualifications.

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

MODEL NO.	STOPBAND (MHz)		f _{co} , MHz	PASSBAND (MHz)		VSWR		POWER INPUT (W)
	(Loss 30dB)	(Loss >20dB)	Nom.	(Loss <2.5dB)	(Loss <3dB)	Typ.	Frequency	
	Typ. DC-f ₁	Min. DC-f ₂	Typ. f ₃	Max. f ₄ -f ₅	Max.	Stopband Frequency 1.5:1	(MHz)	Max.
VHF-8400(+)	DC-5700	DC-6000	8400	9500-13000	9000-13000	20:1	9000-13000	7

Outline Drawing

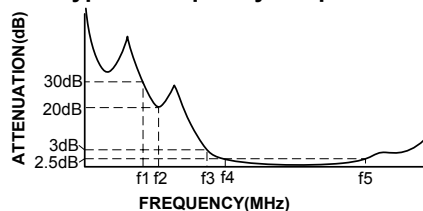


B-OVERALL BODY DIMENSION

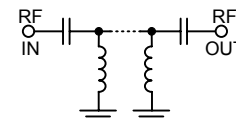
* MAX

** ACROSS FLATS

Typical Frequency Response



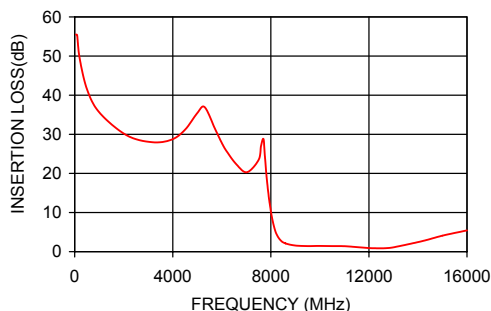
Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	55.48	1737.18
500	41.57	868.59
4500	31.17	49.64
5700	36.69	31.60
6000	27.78	29.46
7500	23.46	17.05
8020	9.65	5.68
8400	2.88	1.50
8600	2.11	1.15
9000	1.57	1.06
9500	1.43	1.24
10000	1.47	1.46
12000	0.92	1.22
13000	1.10	1.48
16000	5.43	4.72

VHF-8400
INSERTION LOSS



VHF-8400
VSWR

