Coaxial

High Pass Filter

VHF-3500+

50Ω 3900 to 9800 MHz

CASE STYLE: FF704

Connectors	Model
SMA	VHF-3500+

+RoHS Compliant

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

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.

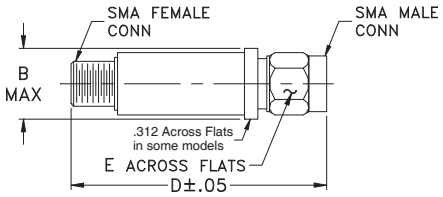
Features

- Rugged uni-body construction, small size
- 5 sections
- Temperature stable
- Excellent power handling, 7W
- Low cost

Application

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

Outline Drawing



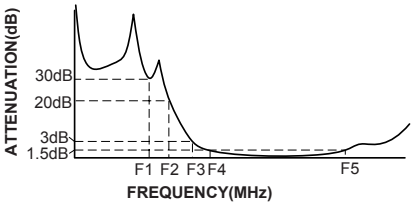
Outline Dimensions (inch / mm)

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

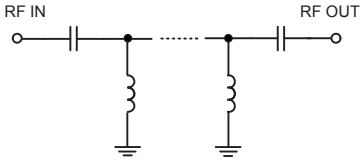
High Pass Filter Electrical Specifications (T_{AMB}= 25°C)

STOPBAND (MHz) (Loss> 30dB) Typ. DC-F1	STOPBAND (MHz) (Loss>20dB) Min. DC-F2	fco, MHz Nom. (Loss 3dB) Typ. F3	PASSBAND (MHz) (Loss<1.5dB) Max. F4-F5	PASSBAND (MHz) (Loss<2dB) Max.	VSWR Typ. Stopband	VSWR Typ. Frequency (MHz) 1.5:1	NO.OF SECTIONS
DC-2900	DC-2800	3500	4000-8800	3900-9800	20:1	3650-9500	5

Typical Frequency Response



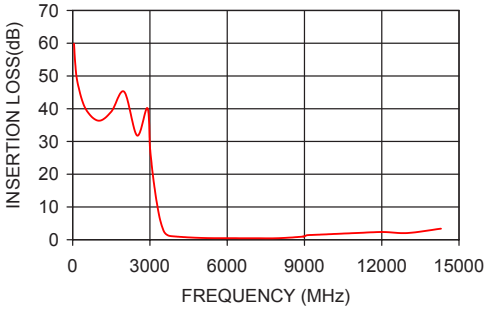
Electrical schematic



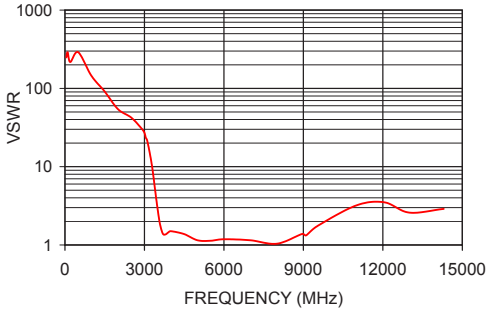
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	59.86	248.17
400	41.76	193.02
1500	39.10	91.43
2800	35.93	37.77
2900	40.20	30.49
3050	24.27	23.49
3250	12.23	12.26
3400	5.96	5.15
3500	3.30	2.82
3650	1.55	1.51
3900	1.04	1.44
4000	0.97	1.50
6000	0.47	1.18
8800	0.75	1.34
9500	1.43	1.68
9800	1.53	2.19
14000	1.82	1.53

VHF-3500+
INSERTION LOSS



VHF-3500+
VSWR



Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp