

High Pass Filter

50Ω 6000 to 11500 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.

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

VHF-5500+ VHF-5500



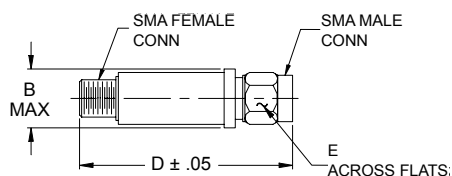
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VHF-5500	\$24.95 ea.	(1-9)
SMA	VHF-5500+	\$24.95 ea.	(1-9)

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

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

Outline Drawing



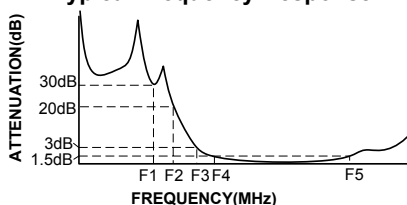
Outline Dimensions (Inch/mm)

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

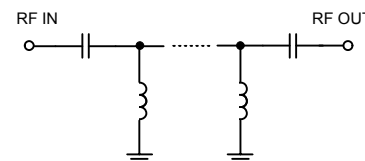
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)		f _{co} , 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.	Stopband	Frequency	
DC-4000	DC-4500	5500	6600-10000	6000-11500	20:1	5600-11000	5

Typical Frequency Response



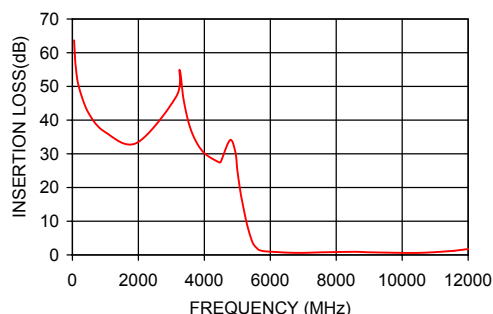
Electrical Schematic



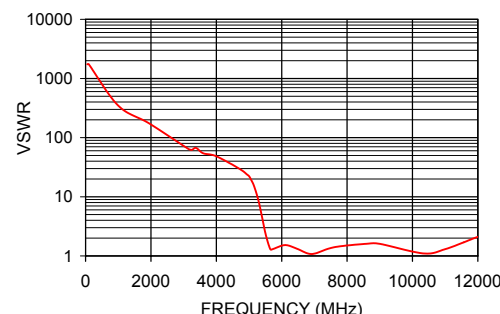
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	63.32	1737.18
500	41.73	868.59
1000	36.12	434.30
3250	44.07	62.05
4000	32.16	45.72
4500	27.90	34.75
5000	26.03	22.29
5500	3.24	2.44
5600	2.05	1.53
6000	1.39	1.53
6600	1.05	1.22
9000	1.09	1.60
10000	0.79	1.24
11500	1.18	1.64
12000	1.71	2.05

VHF-5500
INSERTION LOSS



VHF-5500
VSWR



Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

REV. B
M120155
EDR-6982/3
VHF-5500
RAV
081105
page 1 of 1