

Ultra-Reliable High Pass Filter

VHP-9R5

50Ω 1300 to 3500 MHz



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	14W at 25°C

* Passband rating, derate linearly to 0.4x Pmax at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Features

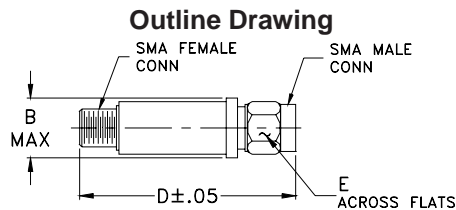
- rugged unibody construction, small size
- pass band insertion loss 1.0 dB typ.
- excellent power handling, 14W
- low cost

Applications

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

CASE STYLE: FF704

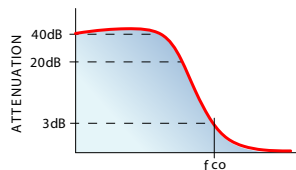
Connectors	Model	Price	Qty.
SMA	VHP-9R5	\$29.95 ea.	(1-9)



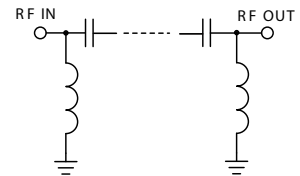
Electrical Specifications (T_{AMB}=25°C)

STOP BAND (MHz)		f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1.3 dB)	Stopband	Passband
		Typ.		Typ.	Typ.
DC-600	750	950	1300-3500	18	1.3

typical frequency response



electrical schematic

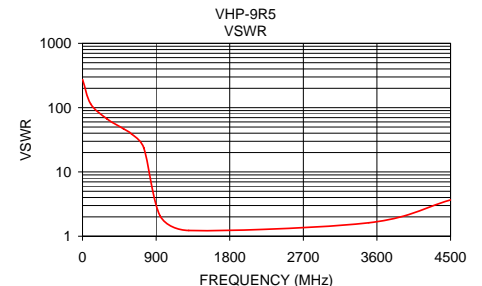
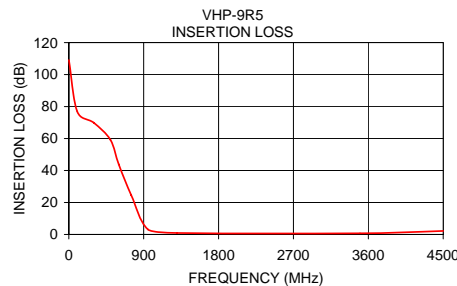


Outline Dimensions (inch/mm)

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

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	109.09	273.43
100.00	77.03	114.28
300.00	69.91	66.79
500.00	59.22	47.03
600.00	43.87	38.78
750.00	24.51	23.57
950.00	3.18	2.06
1300.00	0.94	1.23
3500.00	0.69	1.62
4500.00	2.21	3.67



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

REV. A
M92137
VHP-9R5
ED10545B/7
WZ/AD/CP/AM
090824