

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



CASE STYLE: FF704

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

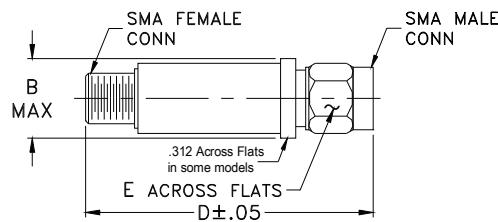
Applications

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

Electrical Specifications ($T_{AMB}=25^{\circ}\text{C}$)

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

Outline Drawing

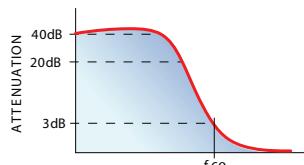


Outline Dimensions (inches/mm)

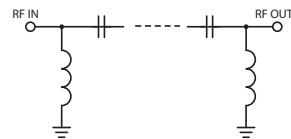
B	D	E	wt
.410	1.43	.312	grams

10.41 36.32 7.92 10.0

typical frequency response

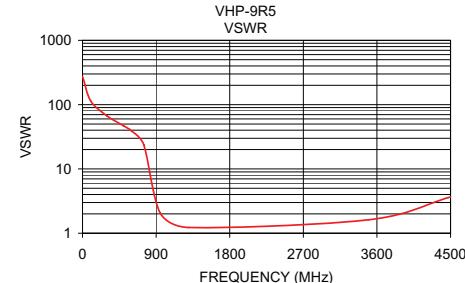
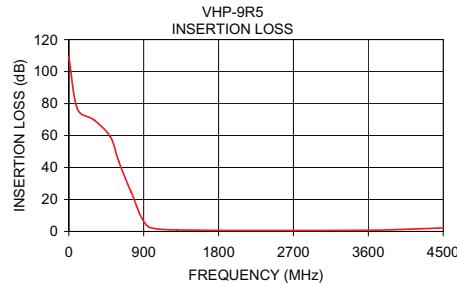


electrical schematic



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



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IF/RF MICROWAVE COMPONENTS

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-Circuits' 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.

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