

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

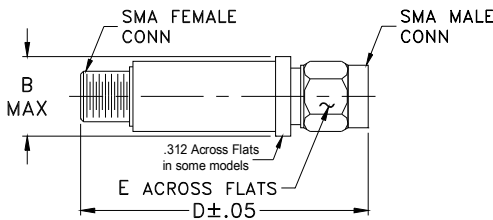


Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	VHP-9R5

Outline Drawing



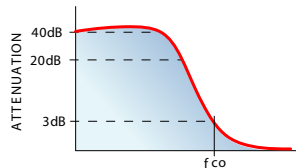
Outline Dimensions (inch/mm)

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

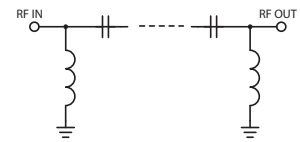
Electrical Specifications (T_{AMB}=25°C)

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

typical frequency response

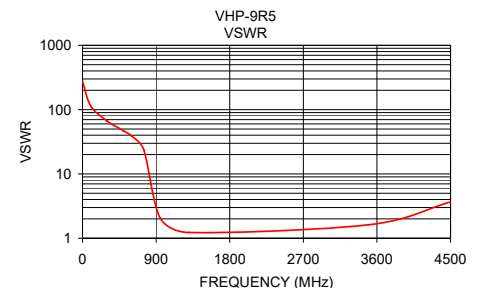
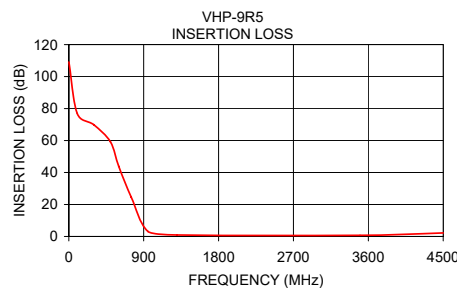


electrical schematic



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



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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