

# Ultra-Reliable High Pass Filter

50Ω 1900 to 2700 MHz

VHP-16



CASE STYLE: FF704

Connectors	Model
SMA	VHP-16

## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	14W max. 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.

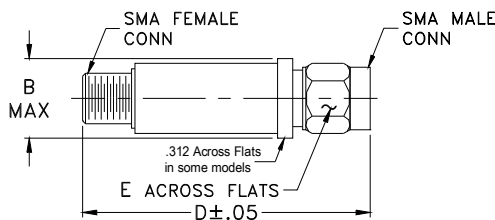
## Features

- 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

## Outline Drawing



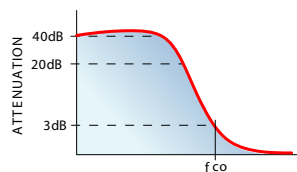
## Outline Dimensions (inch/mm)

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

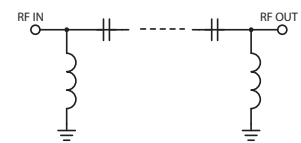
## Electrical Specifications (T<sub>AMB</sub>=25°C)

STOP BAND (MHz)	f <sub>co</sub> , MHz Nom. (loss 3 dB)	PASSBAND (MHz)	VSWR (:1)	
			Stopband	Passband
(loss > 40 dB) (loss > 20 dB)	Typ.	(loss < 1.3 dB)	Typ.	Typ.
DC-1030 1300	1580	1900-2700	18	1.3

## typical frequency response

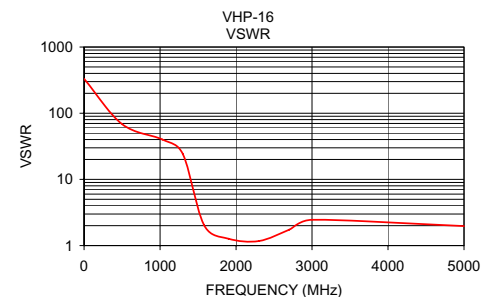
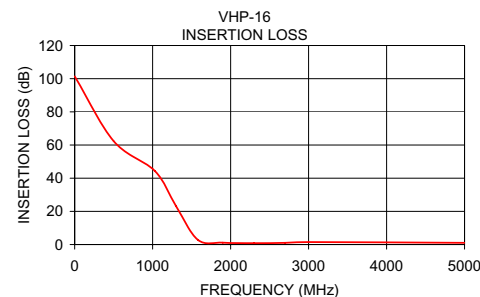


## electrical schematic



## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	101.37	330.92
500.00	62.34	68.33
1030.00	44.28	40.07
1300.00	23.15	24.17
1580.00	2.82	2.03
1900.00	1.12	1.27
2300.00	0.80	1.17
2700.00	1.01	1.74
3000.00	1.47	2.45
5000.00	1.03	1.97



## 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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