

Ultra-Reliable High Pass Filters

1300 to 5500 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Features

- rugged unibody construction
- pass band insertion loss, 1.0 dB typ.
- high power handling, up to 14W
- very low cost

Applications

- sub-harmonic rejection of VCO

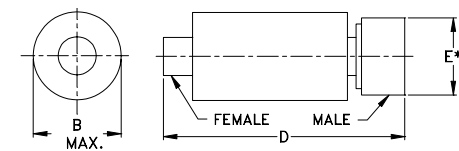
NEW!
VHP-SERIES



CASE STYLE: FF704
PRICE: \$29.95 ea. QTY (1-9)



Outline Drawing



B—OVERALL BODY DIMENSION
* ACROSS FLATS

Outline Dimensions (inch/mm)

B	D	E	wt.
.461	1.42	.312	grams
11.71	36.07	7.92	10

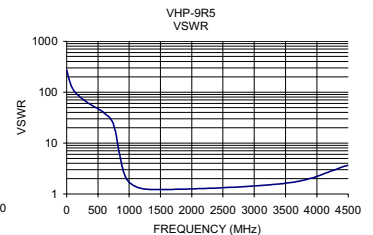
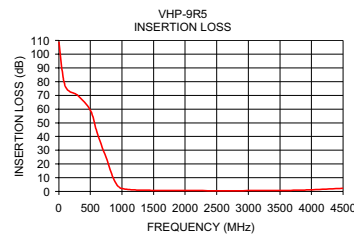
Electrical Specifications (T_{AMB}=25°C)

MODEL NO.	STOP BAND (MHz)		f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1)		POWER INPUT* (W) Pmax.
	(loss >40 dB)	(loss >20 dB)			Stopband Typ.	Passband Typ.	
VHP-9R5	DC-600	750	950	1300-3500	18	1.3	14
VHP-16	DC-1030	1300	1580	1900-2700	18	1.3	14
VHP-19	DC-1450	1650	1995	2300-5500	18	1.3	10
VHP-26	DC-1500	2000	2570	3000-7000	18	1.4	10
VHP-39	DC-2000	3050	3900	4600-5500	18	1.3	10

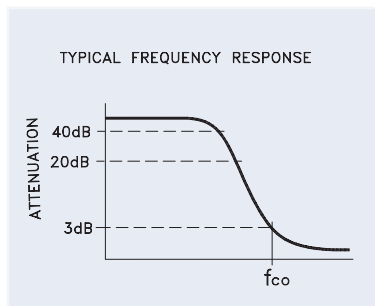
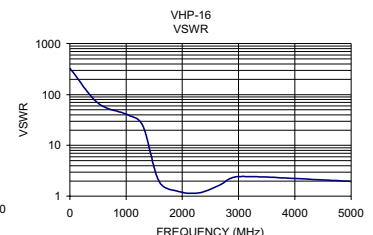
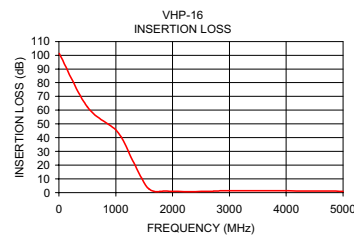
* Derate linearly to 0.4 x Pmax. at 100°C

Typical Performance Data/Curves

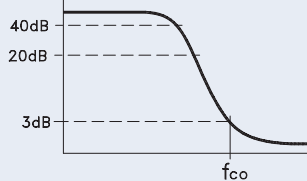
Freq. (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	109.09	273.43
100.00	77.03	114.28
300.00	69.91	66.79
500.00	59.22	47.03
600.00	43.87	38.78
750.00	24.51	23.57
950.00	3.18	2.06
1300.00	0.94	1.23
3500.00	0.69	1.62
4500.00	2.21	3.67



Freq. (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



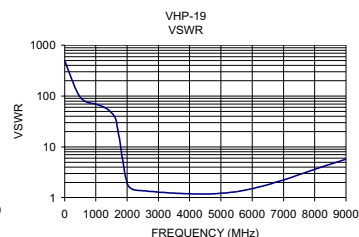
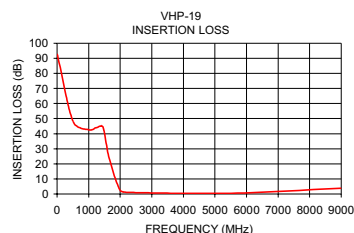
TYPICAL FREQUENCY RESPONSE



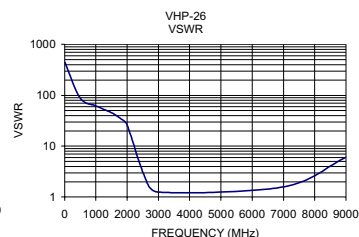
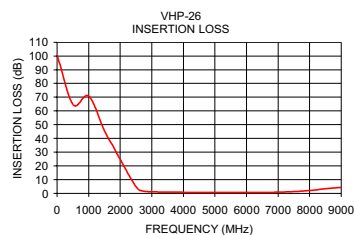
ATTENUATION

f_{co}

Freq. (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	93.02	492.89
500.00	48.24	95.45
1000.00	42.60	69.61
1250.00	44.03	60.92
1450.00	44.29	50.18
1650.00	23.60	32.72
1995.00	2.37	1.97
2300.00	1.00	1.40
5500.00	0.50	1.31
9000.00	3.79	5.70



Freq. (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	100.58	452.14
500.00	64.74	88.41
1000.00	70.90	61.83
1500.00	45.46	45.41
1800.00	33.17	34.51
2000.00	24.65	26.04
2570.00	2.97	2.45
3000.00	1.09	1.25
7000.00	0.90	1.59
9000.00	4.41	6.05



Freq. (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	112.38	775.98
600.00	64.77	128.90
1000.00	64.70	104.50
2000.00	48.15	76.04
2570.00	35.11	58.12
3050.00	23.91	35.47
3900.00	3.01	2.06
4500.00	1.13	1.32
5500.00	1.03	1.58
9000.00	4.06	6.07

