

Horwin RF-V/Ux-x series is a reject (notch) filters based on a quarter wave 5 or 8 inches width square cavities. The use of large cavities provides a high input power rating and means high Q, resulting in a very narrow pass or reject spacing.

There are single or dual cavity filters available. More cavities provide greater rejecting, when required, a wider notch. Filter nominal impedance is 50 Ohms. N-type "female" connectors are used for input/output connections.

Cavities are aluminium made with 5 mm thick top plate welded to the cavity body. Inner conductor and coupling loops are silver plated cooper made. Central tuning rod is invar made. All this provides excellent frequency stability in temperature range from - 30 to + 60°C

Filters are tuned for customer specified frequencies and no further adjustments should be required.



**RF-Vx-5**

**RF-Vx-8**

**RF-Ux-5**

**RF-Ux-8**

<b>RF</b> Reject Filter <b>x</b> frequency range (V=VHF, U=UHF) <b>x</b> cavities numbers <b>x</b> cavity width (inches)		<b>VHF notch filter</b> <b>5" cavities</b>		<b>VHF notch filter</b> <b>8" cavities</b>		<b>UHF notch filter</b> <b>5" cavities</b>		<b>UHF notch filter</b> <b>8" cavities</b>	
Cavity size		1/4λ, 5"		1/4λ, 8"		1/4λ, 5"		1/4λ, 8"	
Frequency range, MHz		144 – 174		144 – 174		400 – 470		400 – 470	
Max. continuous power input, W		200		200		200		200	
Cavities numbers		1	2	1	2	1	2	1	2
ATT, dB @ notch frequency		17	45	19	50	20	47	22	55
Dimensions, mm (with tuning rod extended)	H	880	880	880	880	400	400	400	400
	W	130	130	210	210	130	130	210	210
	L	130	260	210	420	130	260	210	420
Weight, kg		2.7	5.5	3.5	7.1	1.5	3.1	2	4.1