

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 road 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

RF	Reject Filter								
x	frequency range (V=VHF, U=UHF)		VHF notch filter	VHF notch filter	UHF notch filter	UHF notch filter			
x	cavities numbers		5" cavities	8" cavities	5" cavities	8" cavities			
x	cavity width (inches)								
	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		17    45	19    50	20    47	22    55			
	@ notch frequency								
	Dimensions, mm	H	880	880	880	880	400	400	400
	(with tuning rod extended)	W	130	130	210	210	130	130	210
		L	130	260	210	420	130	260	210
	Weight, kg		2.7	5.5	3.5	7.1	1.5	3.1	2
									4.1