Hôrwin

Horwin PRF-V/Ux-x series is a "band pass" filters based on a quarter length 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 band.

There are one, two or three cavities filters available. More cavities provide greater selectivity and, when required, a wider pass-band. 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 provide excellent frequency stability in temperature range from -30 to +60 C°.

Filters are tuned for customer specified frequencies and no future adjustments should be required. If frequencies changes became necessary cavity pass frequency may be adjusted by tuned road and pass width by adjustable coupling loops.

VHF/UHF BAND PASS FILTERS with 5" & 8" Cavities







PF-V3-8

	PF-Vx-5		PF-Vx-8			PF-Ux-5			PF-Ux-8			
 PF Pass Filter x frequency range (V=VHF, U=UHF) x cavities numbers x cavity width (inches) 	VHF band pass filter 5" cavities			VHF band pass filter 8" cavities			UHF band pass filter 5" cavities			UHF band pass filter 8" cavities		
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	3	1	2	3	1	2	3	1	2	3
ATT, dB/offset, Mhz												
(0.5 dB insertion losses on central F)	-20/3	-	_	-20/2	-	-	-15/4	-	-	-15/2	-	-
(2.0 dB insertion losses on central F)	-40/3	-50/2	-50/1	-35/2	-55/2	-65/2	-25/4	-45/4	-60/4	-28/2	-45/2	-60/2
(2.5 dB insertion losses on central F)	-	-60/2	-55/1	-	-65/2	-75/2	_	-55/4	-80/4	_	-50/2	-75/2
Dimensions, mm (with tuning rod extended) L	850 130 130	850 130 260	850 130 390	850 210 210	850 210 420	850 210 630	400 130 130	400 130 260	400 130 390	400 210 210	400 210 420	400 210 630
Weight, kg	2.7	5.5	8.3	3.5	7.1	10.7	1.5	3.1	4.7	3.0	4.1	6.2