

Horwin PRF-V/UM6-x series is a compact “band pass – band reject” filters based on a 6 full size quarter wavelength resonator on UHF and helically on VHF. This filter types can be used to protect a receiver against interference from a nearby transmitter. Pass/reject filters are irreplaceable when the spacing between RX frequency and the interfering signal so small, that the slop of normal pass filters or reject filters are not sufficient to provide adequate rejections.

The filter’s cavities are made of extruded aluminium. All coaxial cables used are semi-rigid silver plated. Cables and connectors are with PTFE insulation. Filters are covered with black polymer powdered coating.

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



**PRF-VM6-SL**

**PRF-UM6-L**

<b>PRF</b> Pass-Reject Filter <b>x</b> frequency range (V=VHF, U=UHF) <b>M6</b> mobile type, 6 cavities <b>S</b> helically resonator <b>x</b> input power (L=50W)	<b>low power compact with helically resonators</b>	<b>low power compact with full size quarter-wavelength resonators</b>
Cavity size, mm	23 x 23	23 x 23
Frequency range, MHz (exact frequencies should be specified when ordering)	144 – 174	400 – 470
Duplex frequency spacing, MHz	3 – 15	10
Max. continuous power input, W	50	50
Insertion loss, db	< 2.5	< 2.5
Reject attenuation, dB	> 80	> 85
Nominal impedance, Ohm	50	50
VSWR	< 1.5	< 1.5
Connectors type	N-female	N-female
Temperature range, °C	-30 ... +60	-30 ... +60
Dimensions (H x W x L), mm (length may vary depending on frequencies ordered)	30 x 155 x 220	30 x 115 x 250
Weight, kg	1	1