

Horwin DF-UM6-H is compact 6 cavity base station duplexer filter. “Band pass/reject” duplexer is ideal for repeaters, duplex base stations and other applications when combining of both receive and transmit frequencies into a single antenna is needed.

The high Q’s of the filter enable the duplexer to work with narrow duplex spacing and to keep low insertion losses.

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.

Each filter is individually made and tuned, so receive and transmit frequencies should be specified when ordering.



	<b>HORWIN DF-UM6-H</b>
Cavity size, mm	<b>40 x 40</b>
Frequency range, MHz	<b>400 – 470</b>
Duplex frequency spacing, MHz	<b>4 – 15</b>
Max. continuous power input, W	<b>150</b>
Insertion loss, db	<b>&lt; 1.4</b>
Tx noise suppression on Rx frequency, dB	<b>&gt; 85</b>
Rx isolation on Tx frequency, dB	<b>&gt; 85</b>
Tx noise suppression on Rx (multichannel), dB	<b>&gt; 80 (2 MHz BW)</b>
Rx isolation on Tx (multichannel), dB	<b>&gt; 80 (2 MHz BW)</b>
Nominal impedance, Ohm	<b>50</b>
VSWR	<b>&lt; 1.5</b>
Connectors type	<b>N-female</b>
Temperature range, °C	<b>-30 ... +60</b>
Dimensions (H x W x L), mm (length may vary depending on frequencies ordered)	<b>55 x 252 x 274</b>
Weight, kg	<b>2.5</b>