

## UHF BANDPASS BANDREJECT 200mm CAVITY FILTER



Aluminium Cavities

Silver Plated Connectors

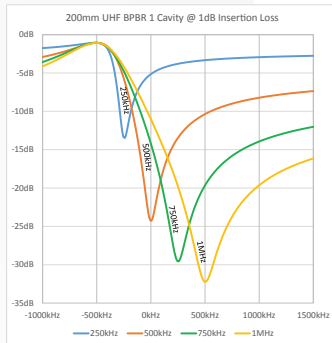
19" Rack Mounting Option Available

Mavitek MUK series bandpass bandreject cavity filters in 200mm (8") diameter are designed and produced to meet high selectivity specifications.

MUK series filters are made from high quality aluminum using robotic welding. They can be painted to the color of choice of the customer.

Connectors used on the filters are silver-plated and PTFE insulated with high durability against temperature changes. Different connector options are available at the request of the customer.

With high "Q" values the filters achieve maximum isolation and superior performance even with 250kHz Rx/Tx frequency shift.



Notes: 1. All tests are performed at +25°C.  
2. UHF 200mm BPBR 1 Cavity @ 1.0dB Insertion Loss

### Electrical Specifications

|                     |  |
|---------------------|--|
| Tuning Range        | 380-512MHz   |
| Maximum Input Power | 300 Watts (0.5dB insertion loss)<br>250 Watts (1.0dB insertion loss)<br>150 Watts (2.0dB insertion loss) |
| Insertion Loss      | Minimum: 0.4dB<br>Maximum: More than 6dB   |
| Frequency Stability | 1.5ppm / °C  |
| Number of Cavities  | 1  |
| VSWR (max.)         | 1.5:1 or less  |
| Impedance           | 50Ω Nominal  |

### Mechanical Specifications

|                              |   |
|------------------------------|---|
| Operating Temperature Range  | -30° to +60°C   |
| Connectors                   | N-Type Female<br>Other options available  |
| Color / Paint                | Anthracite / Glossy Enamel  |
| Weight (approx.)             | 2.20kg / 4.85lbs  |
| Dimensions (Radius x Height) | 200 x 220mm / 8" x 8.7" in  |
| Material                     | Aluminium   |
| Mounting                     | Mounting holes with M5 screws for horizontal rack mounting.<br>Optional 19" Rack tray is available. |
| Order Designations           | 380-424MHz: MUK1402PR8<br>424-468MHz: MUK1446PR8<br>468-512MHz: MUK1490PR8                          |

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