

# CP-BA-200 Series

## AIR Band 120 MHz Cavity (200 mm) Band Pass Filter

- For use in repeaters, full duplex radios and basestations.
- High Q for narrow passband
- High power.
- Suitable for 19" rack mounting.
- Very good temperature and power stability.
- Ø 200 mm cavity

### ELECTRICAL SPECIFICATIONS

|                     |  |
|---------------------|--|
| Type                | VHF AIR Band - Cavity Band Pass Filter                 |
| Frequency           | 118 - 137 MHz  |
| Insertion loss      | CP-BA-200-1: 0.5 - 3.0 dB<br>CP-BA-200-2: 1.0 - 6.0 dB |
| Maximum Input Power | 250 W @ 2.0 dB IL<br>350 W @ 1.0 dB IL                 |
| Attenuation         | See table  |
| Frequency Stability | 1.5 ppm / °C   |
| VSWR                | ≤ 1.5:1  |
| Impedance           | 50 Ohm   |



### MECHANICAL SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Color                 | Black Grey (RAL7016)   |
| Dimension             | CP-BA-200-1: Ø 250 x 800 mm + tuning screw<br>CP-BA-200-2: Two of, Ø 250 x 800 mm + tuning screw |
| Weight                | CP-BA-200-1: Approx. 5.5 kg<br>CP-BA-200-2: Approx. 12.0 kg                                      |
| Mounting              | Rack mounting (19") options available  |
| Connector             | Type N-female  |
| Operating Temperature | -30°C to +60°C   |
| Serial no.            | On product label   |

## Datasheet

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## ORDERING INFORMATION

|             |  |
|-------------|--|
| CP-BA-200-1 | One Cavity (118- 136 MHz)<br>Specify tuning frequency when ordering    |
| CP-BA-200-2 | Two Cavities (118 - 136 MHz)<br>Specify tuning frequency when ordering |

## PACKAGING INFORMATION

|      |     |
|------|-----|
| Type | Box |
|------|-----|

| Typical Attenuation [dB]       |               |               |
|--------------------------------|---------------|---------------|
| $\Delta F$ [kHz]               | CP-BA-200-1 * | CP-BA-200-2 † |
| 125                            | 4.0           | 9.0           |
| 250                            | 8.5           | 20.0          |
| 500                            | 14.0          | 32.0          |
| 1000                           | 20.0          | 44.0          |
| 2500                           | 28.0          | 60.0          |
| 5000                           | 34.0          | 70.0          |
| * For Insertion Loss of 1.0 dB |               |               |
| † For Insertion Loss of 2.0 dB |               |               |