# Coaxial Low-Pass Filter for the 160 MHz Band

## DESCRIPTION

- Passes all signals in or below the 160 MHz-band.
- Rejects signals above this range.
- Absolute stop band from 320 MHz to 6 GHz
  – no degradation at harmonics (Zolotarev-characteristic).
- Attenuation in stop band better than 60 dB.
- Insertion loss in pass range less than 0.4 dB.
- Provided with brackets for panel mounting.

## SPECIFICATIONS

| Electrical | |
|---|---|
| Model | LPZ 175 |
| Frequency | Pass band : 135 - 175 MHz<br>Stop band : 320 MHz - 6 GHz |
| Max. Input Power | 150 W |
| Insertion Loss | ≤ 0.4 dB |
| Application | Low-pass filter for the 160 MHz band |
| 1 dB Cut-Off Frequency | > 180 MHz |
| VSWR | < 1.5:1 |
| Stop Band Attenuation | > 60 dB |

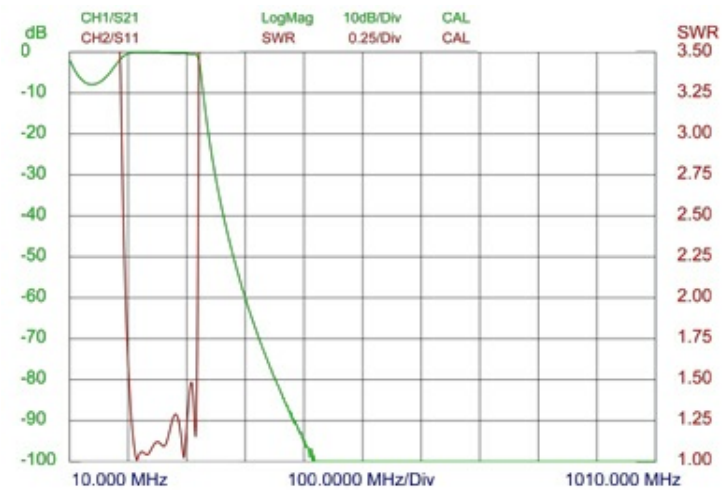
| Mechanical | |
|---|---|
| Connection(s) | N(f) |
| Dimensions | 435 x 40 x 36 mm / 17.13 x 1.57 x 1.42 in. |
| Weight | Approx. 0.53 kg / 1.17 lb. |

| Environmental | |
|---|---|
| Operating temperature range | -30 °C to +80 °C |

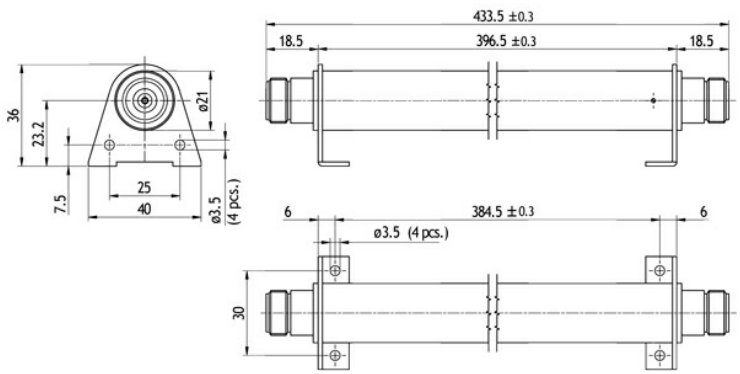
## ORDERING

| Model | Product No. |
|---|---|
| LPZ 175 | 210001324 |

## TYPICAL GAIN AND VSWR CURVE




## MECHANICAL DIMENSIONS




All dimensions are given in mm.

## PLEASE NOTE

The LPZ 175 is used to prevent RFI (Radio Frequency Interference) caused by excessive harmonic-generation from transmitters operating in the 160 MHz band. By rejection, the filter reduces the amplitude of the harmonics and prevents them from being radiated by the antenna.
The filter is normally used in connection with base station transmitters, but as it is mechanically very ruggedly designed, it is perfectly suited for mobile and marine applications as well.