

## ¼ λ Glass fibre Ground-Plane Antenna for the 160 MHz Band

### DESCRIPTION

- GP 160 is a glass fibre ground-plane antenna of the triple-leg type.
- The antenna is tunable (by cutting) within its main frequency band: 145...175 MHz, but is further applicable up to 400 MHz.
- The cutting diagrams below indicate the length of the radiator and the radials corresponding to a specific frequency.
- It is recommended to use the curves as a guide and fine-tune using an SWR-meter.
- The antenna comprises a GP-head made of chromed brass, one glassfiber radiator and three glass fibre radials.
- GP 160 is made of first-class materials and will endure "wear and tear" for years – no maintenance required.
- LW-SS-1" mounting bracket and GP Adaptor is available as accessories.



### ORDERING

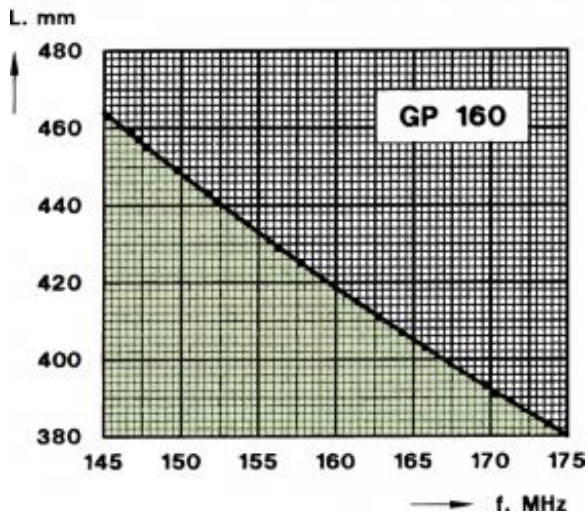
| Type         | Product No. |
|--------------|-------------|
| GP 160       | 100000104   |
| GP 160/42 mm | 100000105   |
| LW-SS-1"     | 110000394   |
| GP Adaptor   | 100000679   |

### SPECIFICATIONS

| Electrical                  |   |
|-----------------------------|---|
| Model                       | GP 160  |
| Frequency                   | Tunable by cutting within: 145-175 MHz<br>(Also applicable: 175-400 MHz)      |
| Antenna Type                | Ground-plane  |
| Max. Input Power            | 1000 W  |
| Polarisation                | Vertical  |
| Pattern Type                | Omnidirectional   |
| 3 dB Beamwidth, H-Plane     | Omnidirectional   |
| Impedance                   | 50 Ω  |
| Gain                        | 0 dBd (2.2 dBi)   |
| Bandwidth                   | 12 MHz @ 160 MHz (SWR < 2.0)<br>30 MHz @ 400 MHz (SWR < 2.0)                  |
| Mechanical                  |   |
| Connection(s)               | UHF female (fitting PL 259)   |
| Materials                   | Shroud : Polyurethane-coated glass fibre<br>Metal parts: Bright chromed brass |
| Colour                      | White (RAL 9003) / Bright chrome  |
| Wind Area                   | 0.0184 sq. m / 0.20 sq. ft  |
| Wind Load                   | 23 N (160km/h)  |
| Dia. At Top End             | 5 mm / 0.20 in.   |
| Dia. At Bottom End          | 8 mm / 0.31 in.   |
| Height                      | 870 mm / 34.25 in.  |
| Weight                      | 1.0 kg / 2.20 lb  |
| Mounting                    | 38 mm dia. mast tube (42 mm dia. as option, see note)                         |
| Environmental               |   |
| Operating Temperature Range | -30°C to +70°C  |

## ADDITIONAL DATA

## CUTTING DIAGRAMS



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## PLEASE NOTE

The GP 160 can be delivered with a GP-head for mounting on 42 mm dia. mast tube (standard is 38 mm) when ordering as option GP 160/42 mm.

The radiator is measured from its free end to the bottom of the black insulator, while the radials are measured from their free ends to where they meet the GP-head.

