

¼ λ Ground-Plane Antenna for the 450 MHz Band

DESCRIPTION

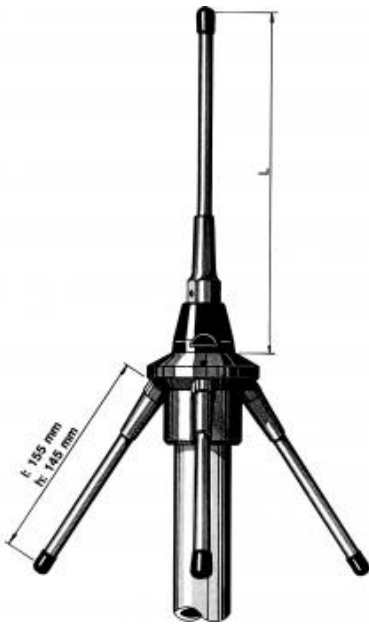
- GP 450/ is a ground-plane antenna of the triple-leg type.
- The antenna is delivered in two models tunable over the ranges 380...430 MHz (l) and 420...470 MHz (h), respectively, by adjusting the length of the radiator.
- The cutting diagram on the diagrams tab indicates how long the radiator must be corresponding to a specific centre frequency. The radiator is measured from its free end (excl. top knob) to the bottom of the black insulator. Do not cut the radials – they should be left untouched.
- GP 450/ comprises a GP-head, one radiator and threeradials – all made of chromed brass.
- GP 450/ is made of first-class materials and will endure “wear and tear” for years – no maintenance required.
- LW-SS-1" mounting bracket and GP Adapor is available as accessories.

SPECIFICATIONS

| Electrical                  |   |
|-----------------------------|---|
| Model                       | GP 450/   |
| Frequency                   | l: 380-430 MHz<br>h: 420-470 MHz                      |
| Antenna Type                | Ground-plane  |
| 3 dB Beamwidth, H-Plane     | Omnidirectional                                       |
| Polarisation                | Vertical  |
| Pattern Type                | Omnidirectional                                       |
| Impedance                   | 50 Ω  |
| Gain                        | 0 dBd (2.2 dBi)                                       |
| Maximum Input Power         | 1000 W  |
| Bandwidth                   | 40 MHz @ SWR 2.0                                      |
| Mechanical                  |   |
| Wind Area                   | 0.0128 sq. m / 0.14 sq. ft                            |
| Connection(s)               | UHF female (fitting PL 259)                           |
| Materials                   | Chromed brass. Weather- and shockproof plastics       |
| Colour                      | Metallic Silver                                       |
| Height                      | 340 mm / 13.39 in.                                    |
| Wind Load                   | 16 N (160km/h)  |
| Weight                      | 0.9 kg / 1.98 lb                                      |
| Element Diameter            | 8 mm / 0.31 in.                                       |
| Mounting                    | 38 mm dia. mast tube (42 mm dia. as option, see note) |
| Environmental               |   |
| Operating Temperature Range | -30 °C to +70 °C                                      |

ORDERING

| Type           | Product No. | Frequency                  |
|----------------|-------------|----------------------------|
| GP 450/l       | 100000128   | Tunable within 380-430 MHz |
| GP 450/h       | 100000129   | Tunable within 420-470 MHz |
| GP 450/l-42 mm | 100000130   | Same as above              |
| GP 450/h-42 mm | 100000133   | Same as above              |
| GP Adaptor     | 100000679   |                            |
| LW-SS-1"       | 110000394   |                            |



DIAGRAM

CUTTING DIAGRAM

