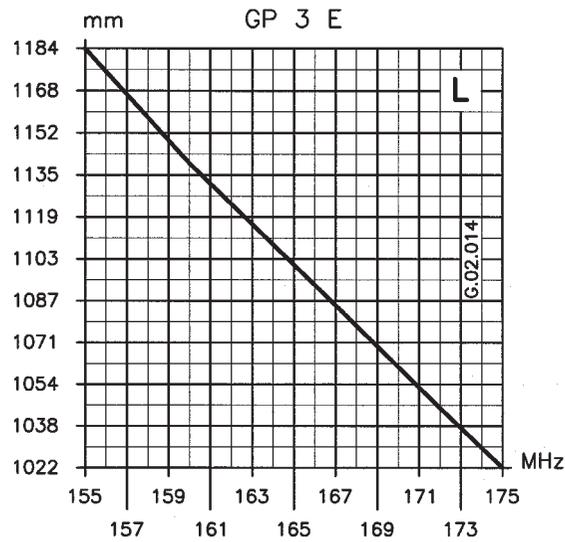
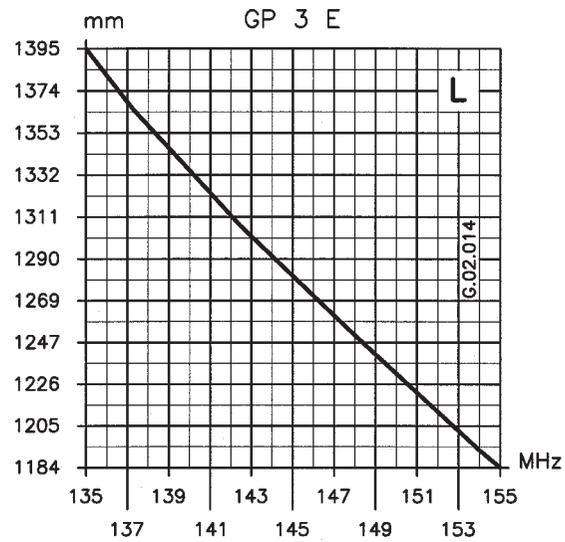


**TYPICAL TUNING DIAGRAMS**



**NOTE:**

- It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.

**Model GP 3-E**  
VHF Base Station Antenna 135-175 MHz



**Installation Manual**

## DESCRIPTION

5/8  $\lambda$  Ground Plane base station antenna for land and marine service. It works on the frequency range of 135-175 MHz by using the tuning diagram enclosed. The matching coil is DC fed for a perfect protection from the static discharges. GP 3-E is made of non-corrosive aluminium and assembled on a very strong base of die-cast metal to get the maximum robustness and the best performance. Tuning is easy by following the attached directions.

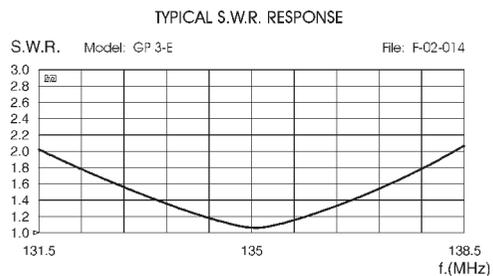
## SPECIFICATIONS

### Electrical Data

|                           |   |                                |
|---------------------------|---|--------------------------------|
| Type                      | : | 5/8 $\lambda$ Ground Plane     |
| Frequency Range           | : | 135-175 MHz tunable by diagram |
| Impedance                 | : | 50 $\Omega$ Unbalanced         |
| Radiation (H-plane)       | : | 360° Omnidirectional           |
| Radiation (E-plane)       | : | Beamwidth at -3 dB = 67°       |
| Radiation angle deg.      | : | 18°                            |
| Polarization              | : | Vertical                       |
| Gain                      | : | 1.5 dBd - 3.65 dBi             |
| Bandwidth at V.S.W.R. 2:1 | : | 6.7 MHz at 135 MHz             |
| V.S.W.R. at res. freq.    | : | $\leq 1.2 : 1$                 |
| Max Power                 | : | 200 Watts                      |
| Feed System / Position    | : | Transformer DC-Ground / Base   |
| Connection                | : | UHF Female                     |

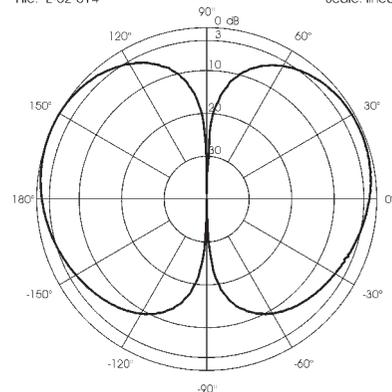
### Mechanical Data

|                        |   |                             |
|------------------------|---|-----------------------------|
| Materials              | : | Aluminium, Nylon            |
| Wind Load / Resistance | : | 28 N at 150 Km/h / 150 Km/h |
| Wind Surface           | : | 0.02 m <sup>2</sup>         |
| Height (approx.)       | : | 1480 mm                     |
| Weight (approx.)       | : | 570 gr                      |
| Mounting Mast          | : | $\varnothing$ 25-30 mm      |



TYPICAL RADIATION PATTERN in E-plane at 145 MHz

File: E-02-014 Scale: linear



## MOUNTING INSTRUCTIONS

