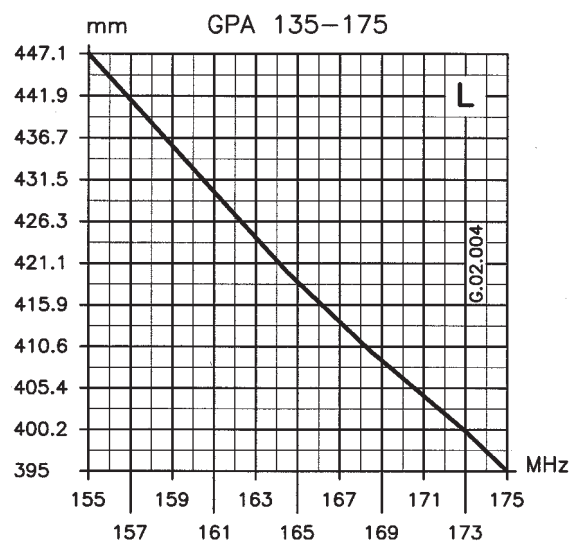
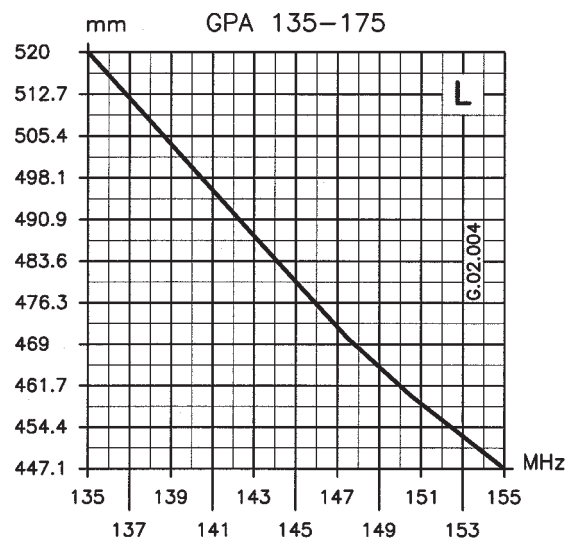


TYPICAL TUNING DIAGRAMS



NOTE:

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

Model GPA 135-175

VHF Ground Plane Antenna 135-175 MHz



Installation Manual

DESCRIPTION

1/4 λ Ground Plane antenna for base station service working on 135-175 MHz by means of the tuning diagram enclosed. It is entirely made of non-corrosive aluminium and assembled on a strong die-cast base which allows an easy and safe installation assuring very good performances.

SPECIFICATIONS

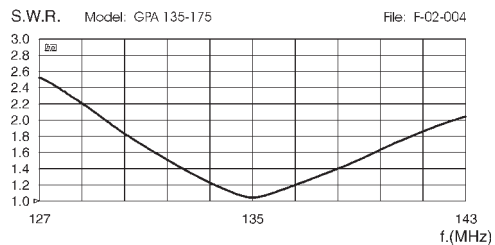
Electrical Data

Type	: 1/4 λ Ground Plane
Frequency Range	: 135-175 MHz tunable by diagram
Impedance	: 50 Ω Unbalanced
Radiation (H-plane)	: 360° Omnidirectional
Radiation (E-plane)	: Beamwidth at -3 dB = 86°
Radiation angle deg.	: 0°
Polarization	: Vertical
Gain	: 0 dBd - 2.15 dBi
Bandwidth at V.S.W.R. 2:1	: 13 MHz at 135 MHz
V.S.W.R. at res. freq.	: $\leq 1.2 : 1$
Max Power	: 300 Watts
Feed System / Position	: Direct / Center
Connection	: UHF Female

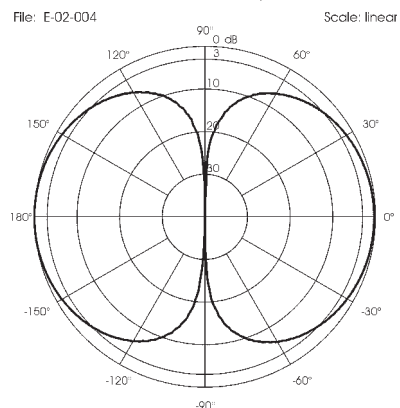
Mechanical Data

Materials	: Aluminium, Chromed Brass, Nylon, Stainless Steel
Wind Load / Resistance	: 29 N at 150 Km/h / 180 Km/h
Wind Surface	: 0.03 m ²
Height (approx.)	: 960 mm
Weight (approx.)	: 520 gr
Radial Length (approx)	: 520 mm
Mounting Mast	: \varnothing 35-40 mm

TYPICAL S.W.R. RESPONSE



TYPICAL RADIATION PATTERN in E-plane at 135 MHz



MOUNTING INSTRUCTIONS

