

NOTE:

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

Model **GPA 27-45**

Ground Plane Antenna 27-45 MHz



Installation Manual

 $1/4~\lambda$ Ground Plane antenna for base station service working on 27-45 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 27-45 MHz tunable by diagram

Impedance : 50 Ω Unbalanced Radiation : Omnidirectional

Polarization : Vertical

Gain : 0 dBd - 2.14 dBi Bandwidth at V.S.W.R. 2:1 : 2.5 MHz at 27 MHz

V.S.W.R. at f. res.:≤ 1.2 : 1Max Power:1000 WattsFeed System / Position:Direct / CenterConnection:UHF Female

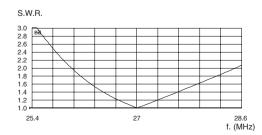
Mechanical Data

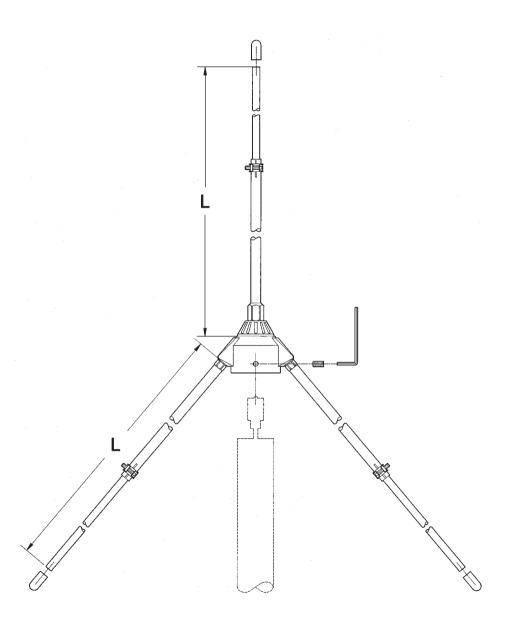
Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel

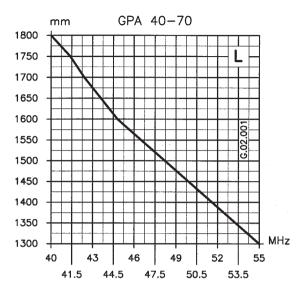
Wind Load / Resistance : 126 N at 150 Km/h / 130 Km/h

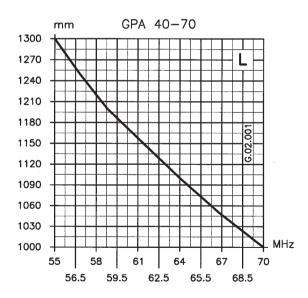
Wind Surface : 0.11 m²
Height (approx.) : 4730 mm
Weight (approx.) : 1250 gr
Radial Length (approx) : 2680 mm
Mounting Mast : Ø 35-40 mm

TYPICAL S.W.R. RESPONSE









NOTE:

 $\bullet \hspace{0.4cm}$ It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.

VHF Ground Plane Antenna 40-70 MHz



Installation Manual

 $1/4~\lambda$ Ground Plane antenna for base station service working on 40-70 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 40-70 MHz tunable by diagram

Radiation angle deg. : 0°

Polarization : Vertical

Gain : 0 dBd - 2.15 dBi Bandwidth at V.S.W.R. 2:1 : 3.5 MHz at 40 MHz

V.S.W.R. at res. freq. : ≤ 1.2 : 1

Max Power : 1000 Watts

Feed System / Position : Direct / Center

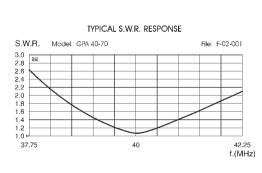
Connection : UHF Female

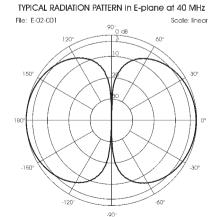
Mechanical Data

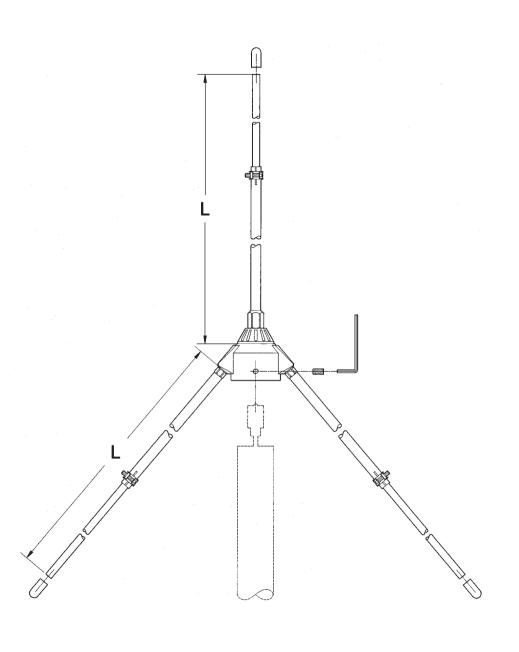
Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel

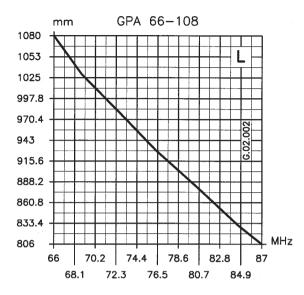
Wind Load / Resistance : 85 N at 150 Km/h / 150 Km/h

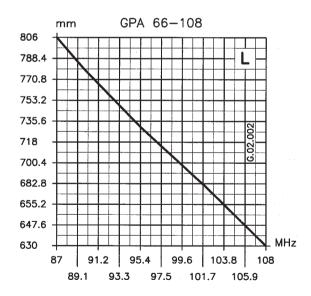
Wind Surface : 0.07 m²
Height (approx.) : 3200 mm
Weight (approx.) : 935 gr
Radial Length (approx) : 1800 mm
Mounting Mast : Ø 35-40 mm











NOTE:

 $\bullet \hspace{0.4cm}$ It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.

VHF Ground Plane Antenna 66-108 MHz



Installation Manual

 $1/4~\lambda$ Ground Plane antenna for base station service working on 66-108 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 66-108 MHz tunable by diagram

Radiation angle deg. : 0°

Polarization : Vertical

Gain : 0 dBd - 2.14 dBi Bandwidth at V.S.W.R. 2:1 : 6.5 MHz at 66 MHz

V.S.W.R. at res. freq. : ≤ 1.2 : 1

Max Power : 500 Watts

Feed System / Position : Direct / Center

Connection : UHF Female

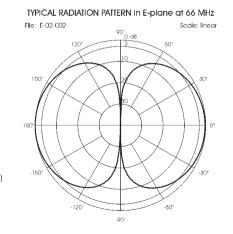
Mechanical Data

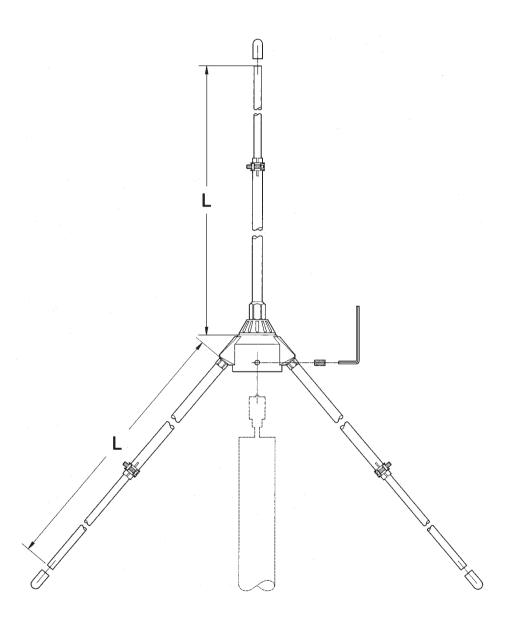
Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel

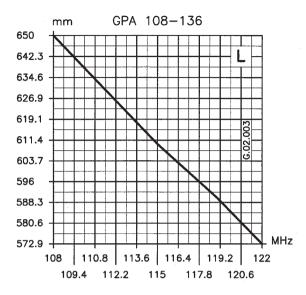
Wind Load / Resistance : 54 N at 150 Km/h / 150 Km/h

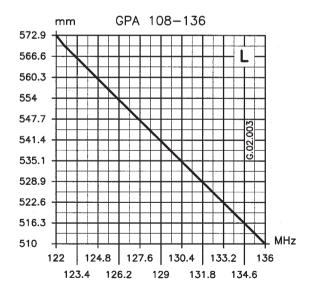
Wind Surface : 0.05 m²
Height (approx.) : 1930 mm
Weight (approx.) : 700 gr
Radial Length (approx) : 1080 mm
Mounting Mast : Ø 35-40 mm

TYPICAL S.W.R. RESPONSE S.W.R. Model: GPA 66-108 File: F-02-002 3.0 2.8 2.6 2.4 2.2 2.0 1.6 1.6 1.4 1.2 1.0 62 62 66 70 f.(MHz)









NOTE:

 $\bullet \hspace{0.4cm}$ It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.

Model **GPA 108-136**

VHF Ground Plane Antenna 108-136 MHz



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 $1/4 \lambda$ Ground Plane antenna for base station service working on 108-136 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 108-136 MHz tunable by diagram

Radiation angle deg. : 0

Polarization : Vertical

Gain : 0 dBd - 2.15 dBi Bandwidth at V.S.W.R. 2:1 : 12 MHz at 108 MHz

 V.S.W.R. at res. freq.
 : ≤ 1.2 : 1

 Max Power
 : 500 Watts

 Feed System / Position
 : Direct / Center

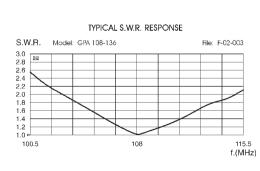
 Connection
 : UHF Female

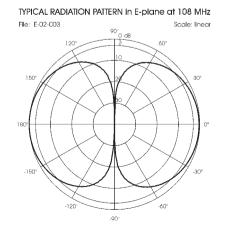
Mechanical Data

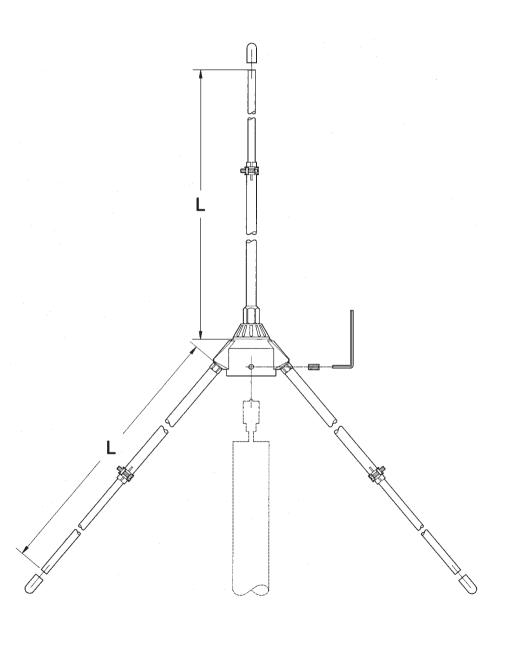
Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel

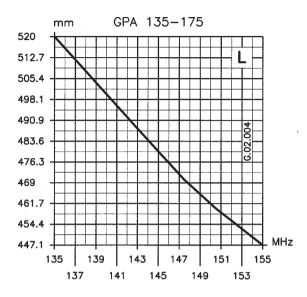
Wind Load / Resistance : 35 N at 150 Km/h / 150 Km/h

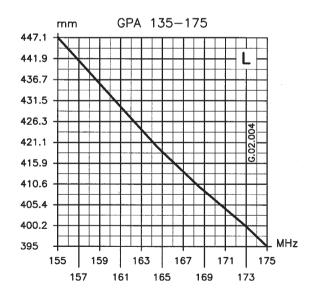
Wind Surface : 0.03 m²
Height (approx.) : 1185 mm
Weight (approx.) : 565 gr
Radial Length (approx) : 650 mm
Mounting Mast : Ø 35-40 mm











NOTE:

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

Model **GPA I35-I75**

VHF Ground Plane Antenna 135-175 MHz



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 $1/4~\lambda$ 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 135-175 MHz tunable by diagram

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. : ≤1.2 : 1

Max Power : 300 Watts

Feed System / Position : Direct / Center

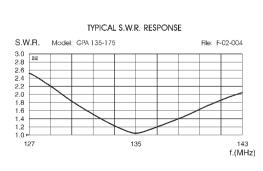
Connection : UHF Female

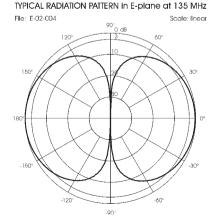
Mechanical Data

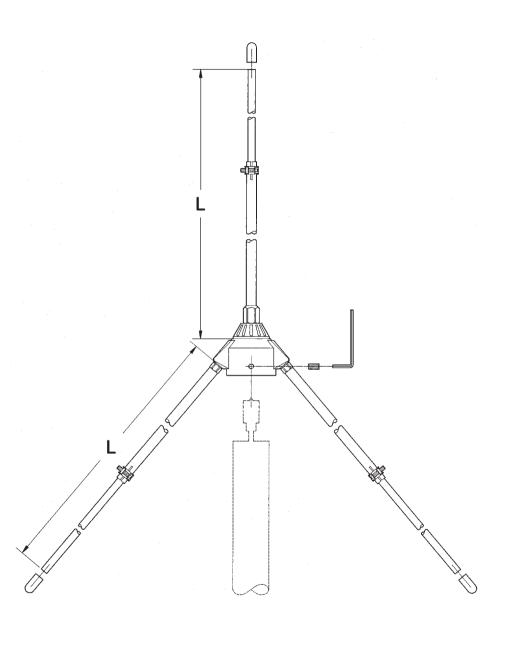
Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel

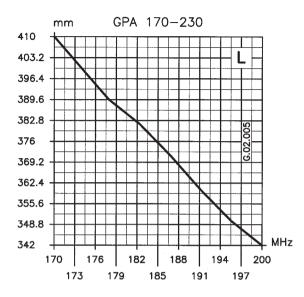
Wind Load / Resistance : 29 N at 150 Km/h / 180 Km/h

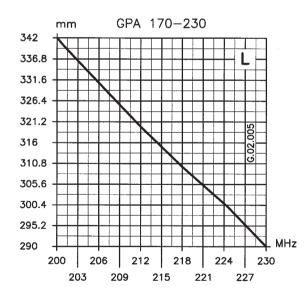
Wind Surface : 0.03 m²
Height (approx.) : 960 mm
Weight (approx.) : 520 gr
Radial Length (approx) : 520 mm
Mounting Mast : Ø 35-40 mm











NOTE:

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

Model **GPA 170-230**

VHF Ground Plane Antenna 170-230 MHz



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 $1/4~\lambda$ Ground Plane antenna for base station service working on 170-230 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 : $1/4 \lambda$ Ground Plane

Frequency Range : 170-230 MHz tunable by diagram

Radiation angle deg. : 0°

Polarization : Vertical

Gain : 0 dBd - 2.15 dBi Bandwidth at V.S.W.R. 2:1 : 19 MHz at 170 MHz

V.S.W.R. at res. freq. : ≤ 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 : 24 N at 150 Km/h / 180 Km/h

Wind Surface : 0.02 m²
Height (approx.) : 760 mm
Weight (approx.) : 480 gr
Radial Length (approx) : 410 mm
Mounting Mast : Ø 35-40 mm

