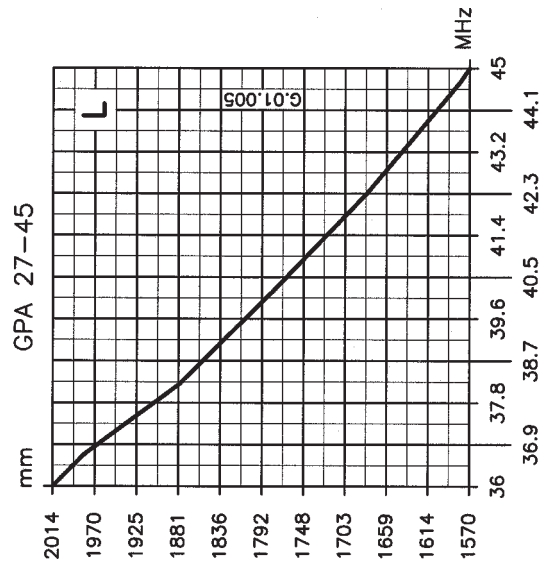
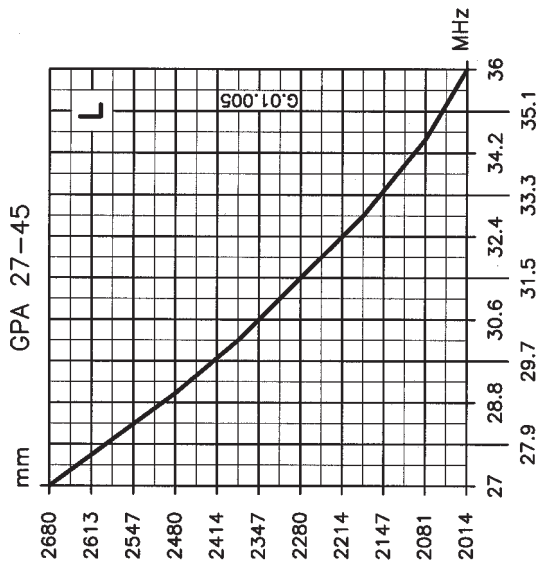
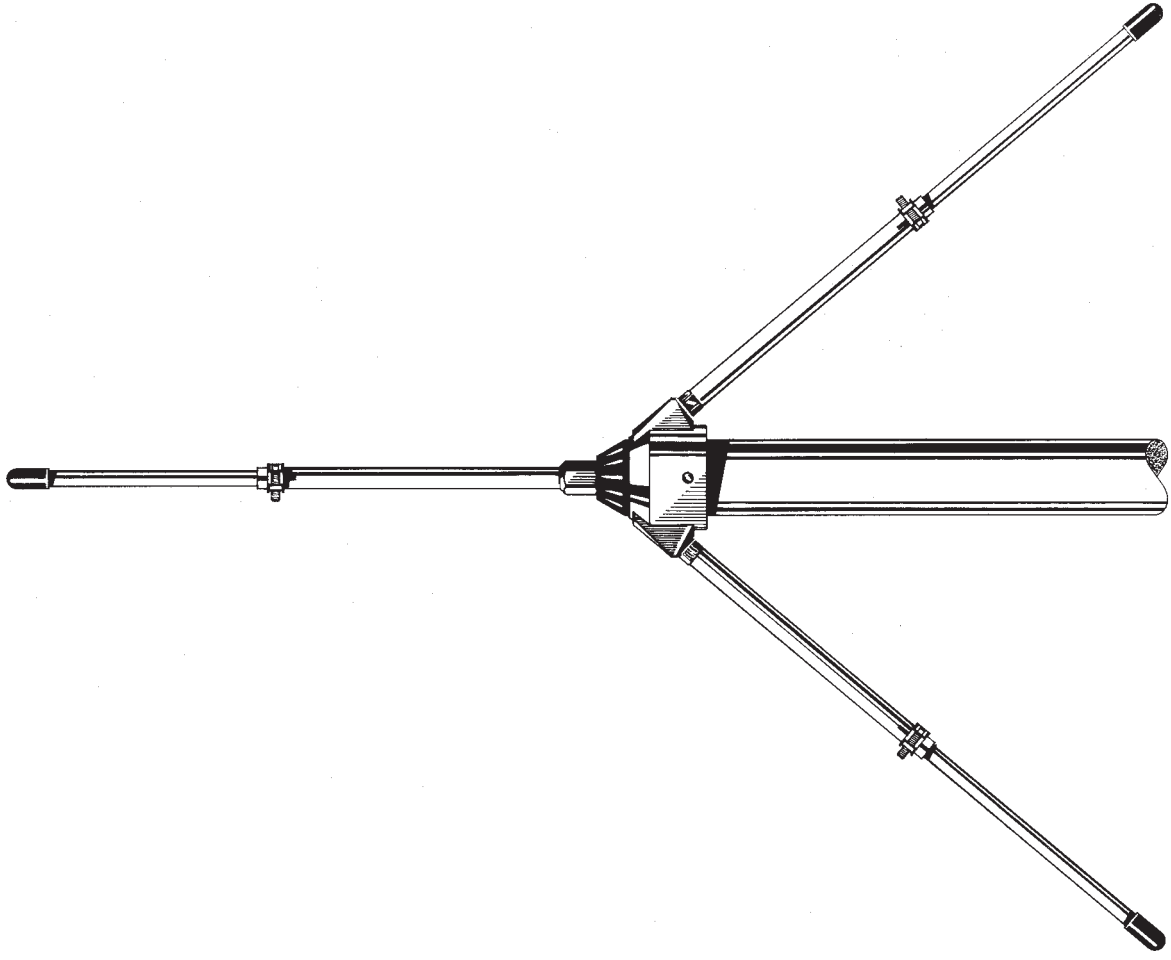


TYPICAL TUNING DIAGRAMS



Model GPA 27-45

Ground Plane Antenna 27-45 MHz



NOTE:

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

MOUNTING INSTRUCTIONS

1/4 λ 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.

DESCRIPTION

SPECIFICATIONS

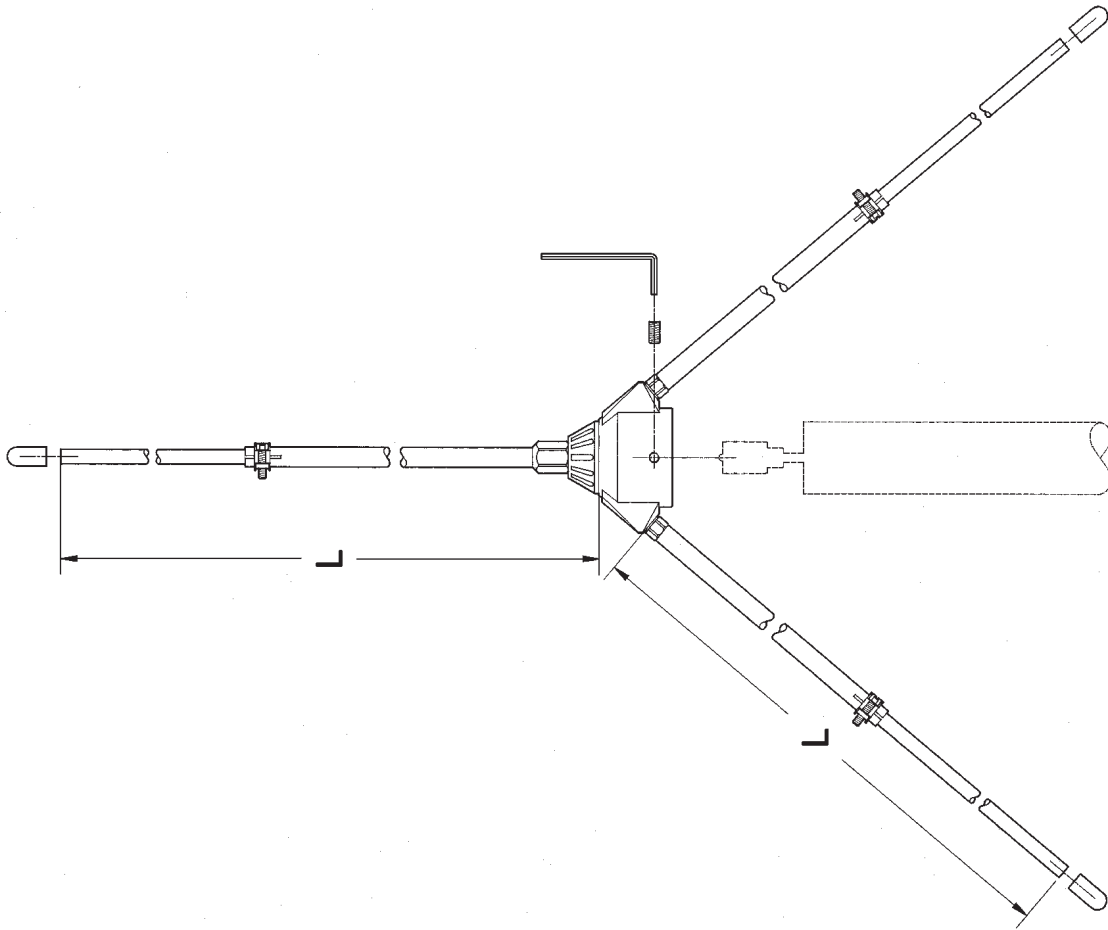
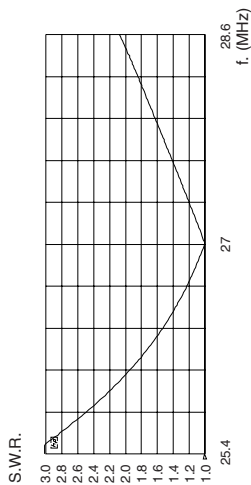
Electrical Data

- Type : 1/4 λ 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. : $\leq 1.2 : 1$
- Max Power : 1000 Watts
- Feed System / Position : Direct / Center
- Connection : UHF Female

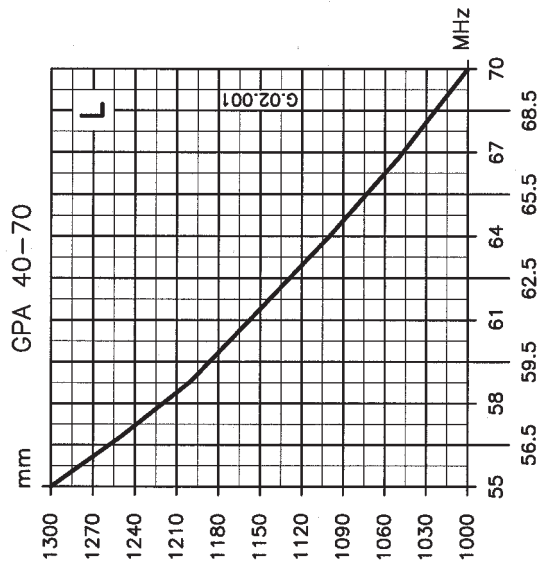
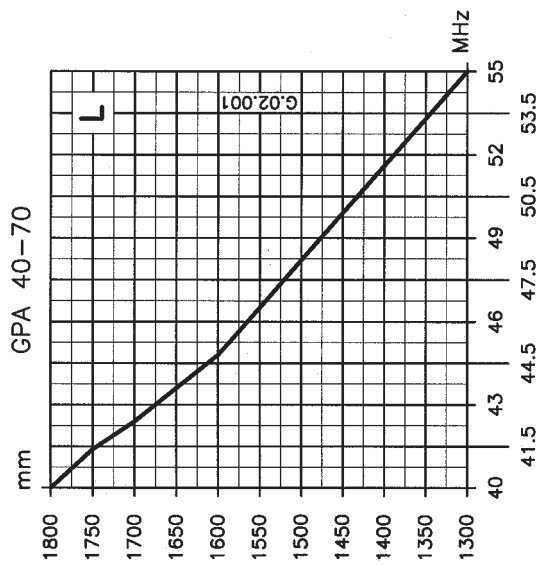
Mechanical Data

- Materials : Aluminium, Chromed Brass, Nylon, Stainless Steel
- Wind Load / Resistance : 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 : \varnothing 35-40 mm

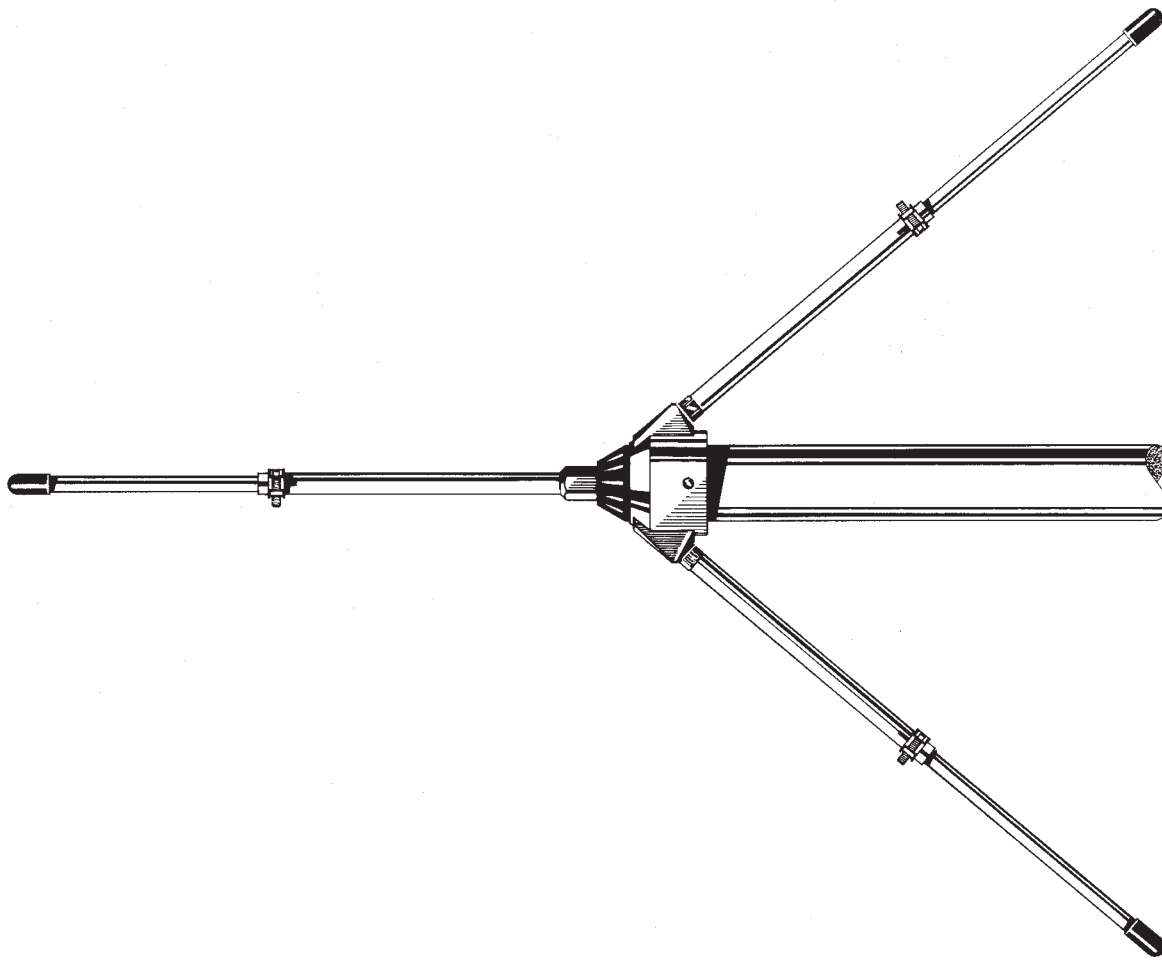
TYPICAL S.W.R. RESPONSE



TYPICAL TUNING DIAGRAMS



Model GPA 40-70
VHF Ground Plane Antenna 40-70 MHz

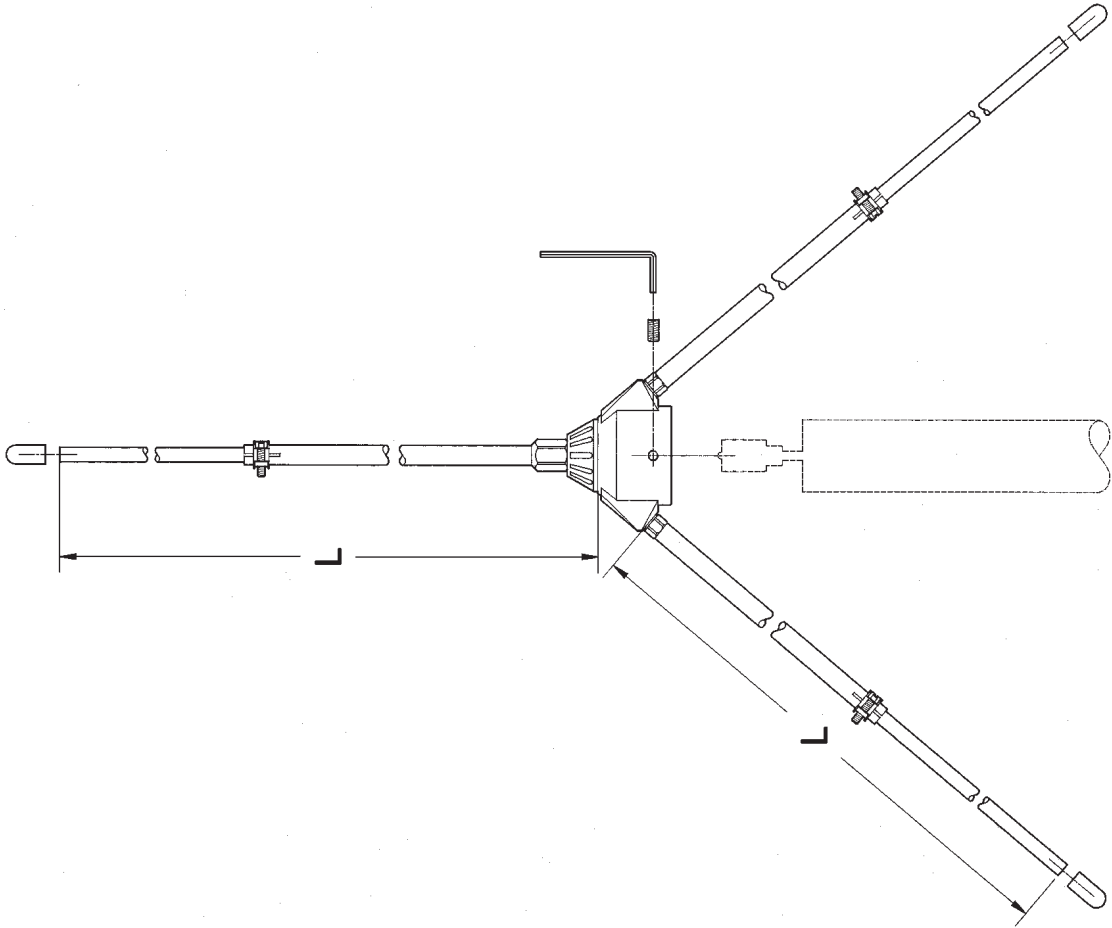


NOTE:

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

Installation Manual

MOUNTING INSTRUCTIONS



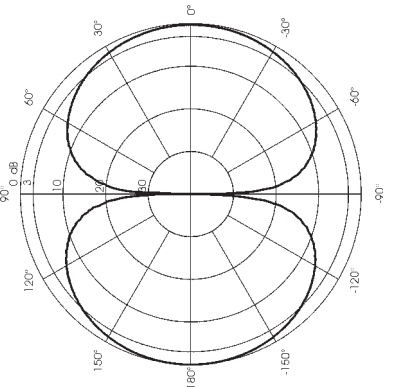
DESCRIPTION

1/4 λ 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.

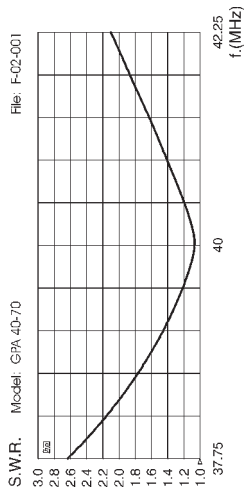
SPECIFICATIONS

Electrical Data	
Type	: 1/4 λ Ground Plane
Frequency Range	: 40-70 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	: 3.5 MHz at 40 MHz
V.S.W.R. at res. freq.	: $\leq 1.2 : 1$
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 m ²
Height (approx.)	: 3200 mm
Weight (approx.)	: 935 gr
Radial Length (approx)	: 1800 mm
Mounting Mast	: \varnothing 35-40 mm

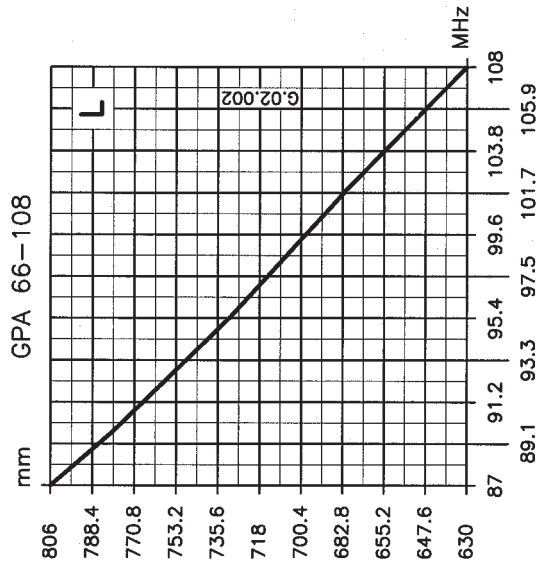
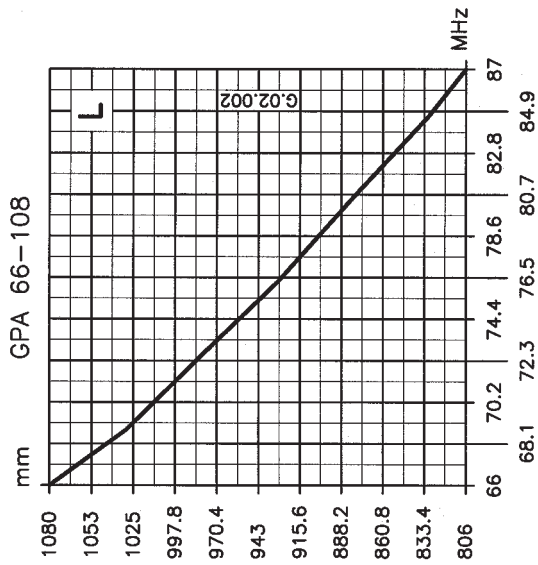
TYPICAL RADIATION PATTERN in E-plane at 40 MHz
File: E-02-001 Scale: linear



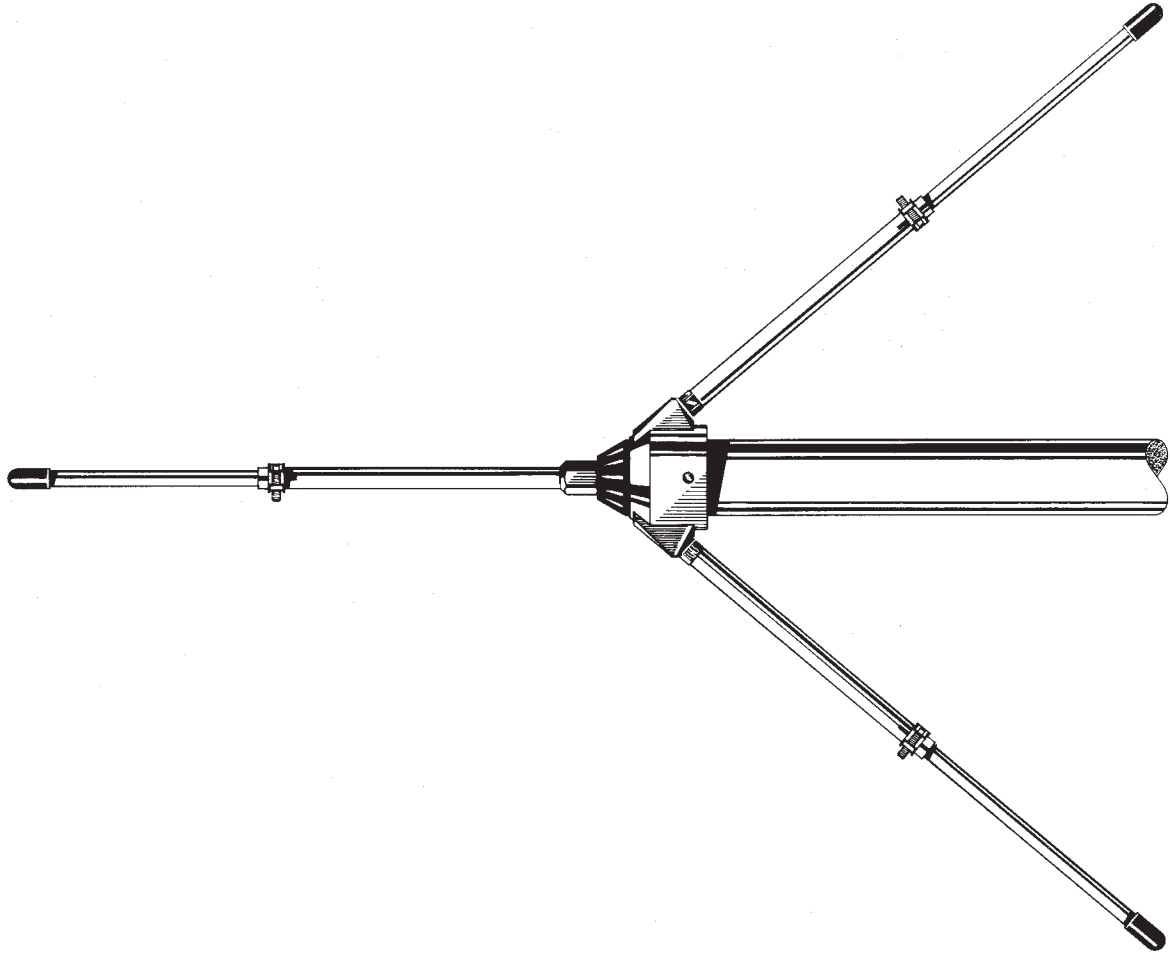
TYPICAL S.W.R. RESPONSE



TYPICAL TUNING DIAGRAMS



Model GPA 66-108
VHF Ground Plane Antenna 66-108 MHz

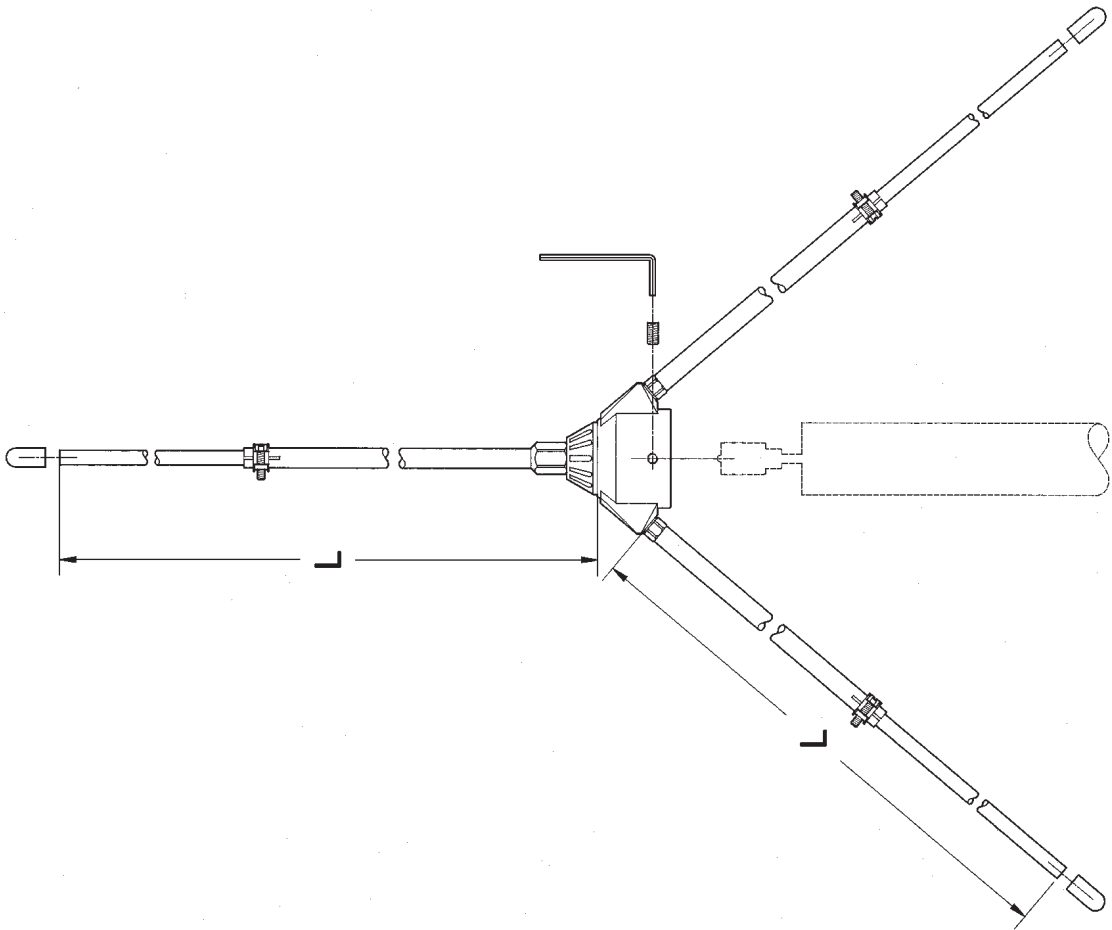


NOTE:

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

Installation Manual

MOUNTING INSTRUCTIONS



DESCRIPTION

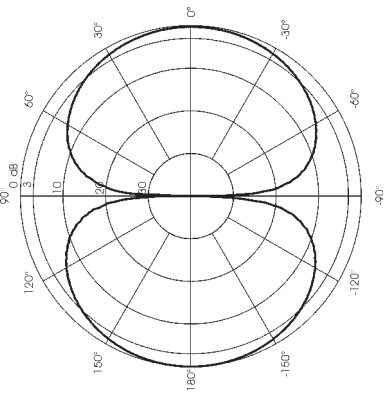
1/4 λ Ground Plane antenna for base station service working on 66-108 MHz by means of the tuning diagram enclosed. It is entirely made of non-corrosive aluminium and assembled on a strong die-cast base which allows an easy and safe installation assuring very good performances.

SPECIFICATIONS

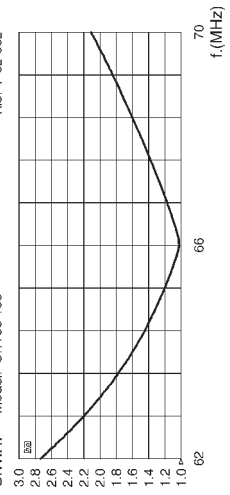
- | | | |
|---------------------------|---|-------------------------------|
| Electrical Data | : | 1/4 λ Ground Plane |
| Type | : | 66-108 MHz tunable by diagram |
| Frequency Range | : | 50 Ω Unbalanced |
| Impedance | : | 360° Omnidirectional |
| Radiation (H-plane) | : | Beamwidth at -3 dB = 86° |
| Radiation (E-plane) | : | 0° |
| Radiation angle deg. | : | Vertical |
| Polarization | : | 0 dBd - 2.14 dBi |
| Gain | : | 6.5 MHz at 66 MHz |
| Bandwidth at V.S.W.R. 2:1 | : | ≤ 1.2 : 1 |
| V.S.W.R. at res. freq. | : | 500 Watts |
| Max Power | : | Direct / Center |
| Feed System / Position | : | UHF Female |
| Connection | : | |

- | | | |
|------------------------|---|--|
| Mechanical Data | : | Aluminium, Chromed Brass, Nylon, Stainless Steel |
| Materials | : | 54 N at 150 Km/h / 150 Km/h |
| Wind Load / Resistance | : | 0.05 m ² |
| Wind Surface | : | 1930 mm |
| Height (approx.) | : | 700 gr |
| Weight (approx.) | : | 1080 mm |
| Radial Length (approx) | : | ∅ 35-40 mm |
| Mounting Mast | : | |

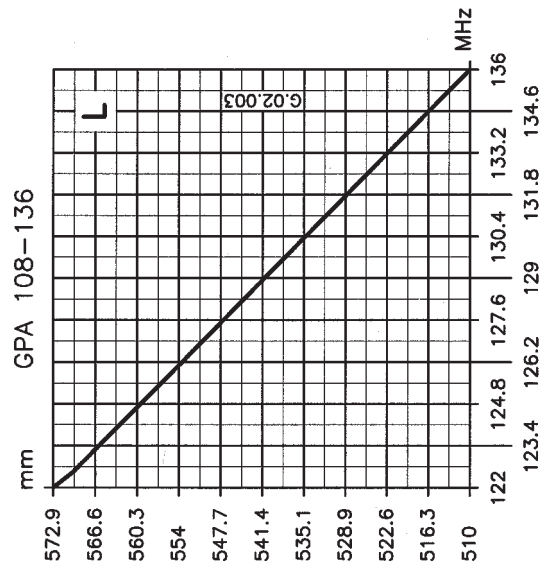
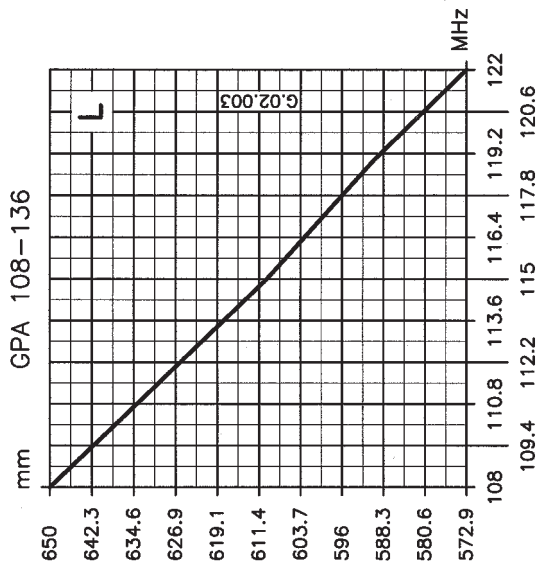
TYPICAL RADIATION PATTERN in E-plane at 66 MHz
File: E-02-002 Scale: linear



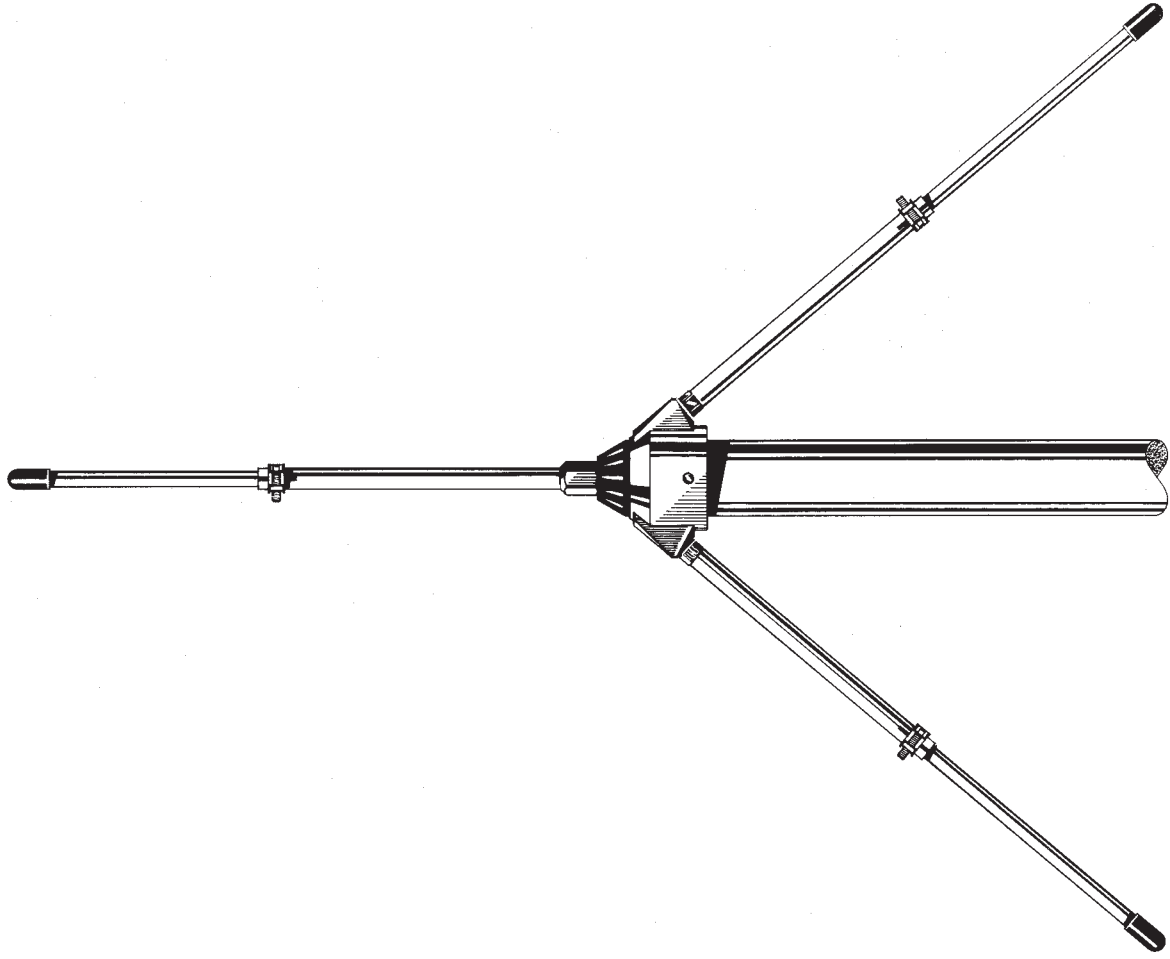
TYPICAL S.W.R. RESPONSE
Model: CPA 66-108 File: F-02-002



TYPICAL TUNING DIAGRAMS



Model GPA 108-136
VHF Ground Plane Antenna 108-136 MHz

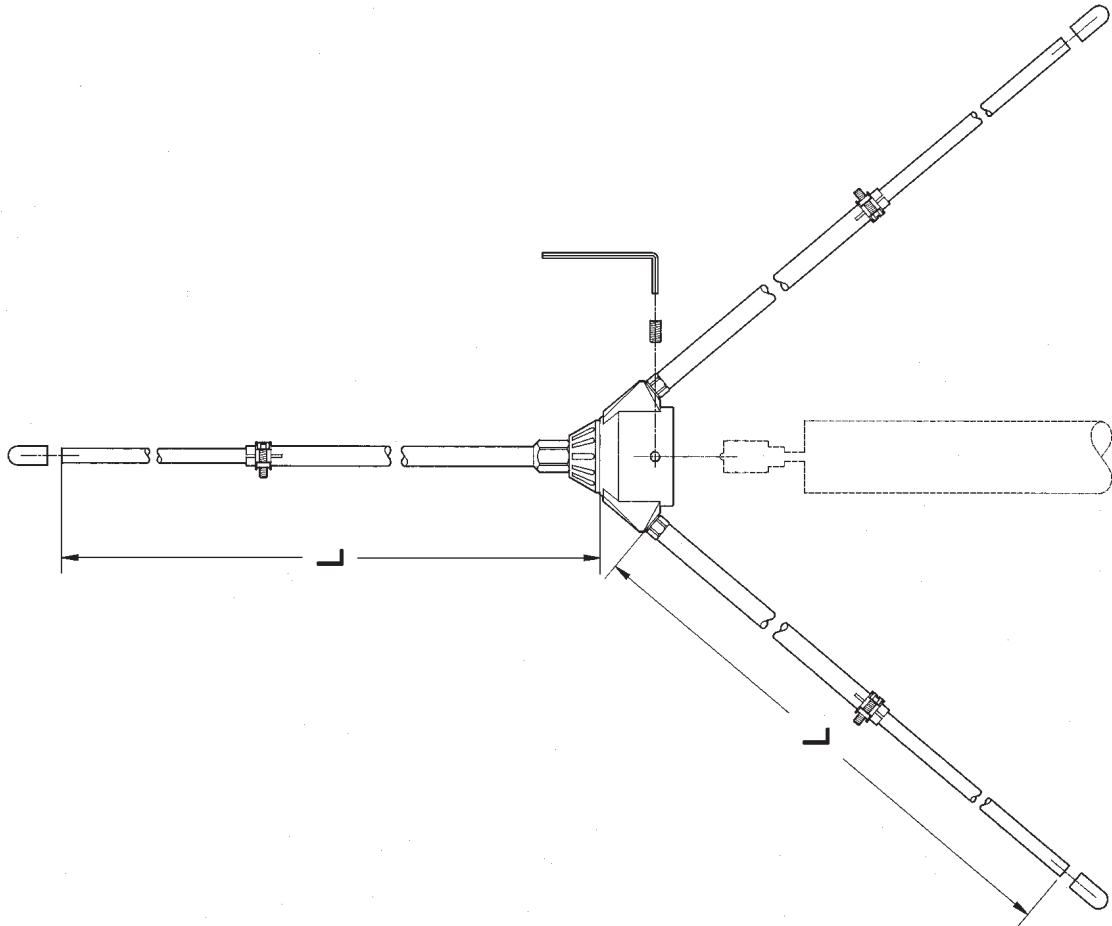


Installation Manual

NOTE:

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

MOUNTING INSTRUCTIONS



DESCRIPTION

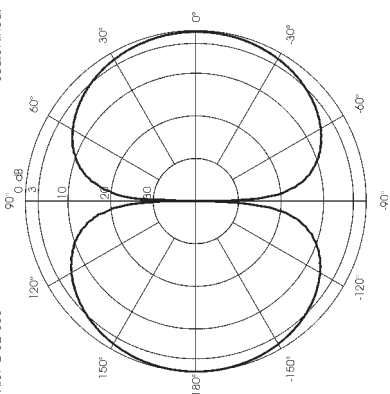
1/4 λ Ground Plane antenna for base station service working on 108-136 MHz by means of the tuning diagram enclosed. It is entirely made of non-corrosive aluminium and assembled on a strong die-cast base which allows an easy and safe installation assuring very good performances.

SPECIFICATIONS

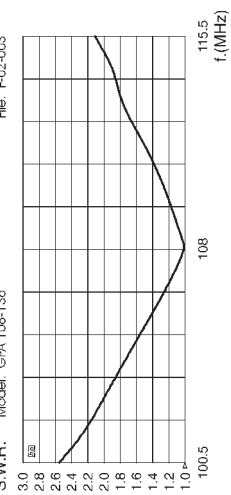
- Electrical Data**
- Type : 1/4 λ Ground Plane
- Frequency Range : 108-136 MHz tunable by diagram
- Impedance : 50 Ω Unbalanced
- Radiation (H-plane) : 360° Omnidirectional
- Radiation (E-plane) : Beamwidth at -3 dB = 86°
- Radiation angle deg. : 0°
- Polarization : Vertical
- Gain : 0 dBd - 2.15 dBi
- Bandwidth at V.S.W.R. 2:1 : 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

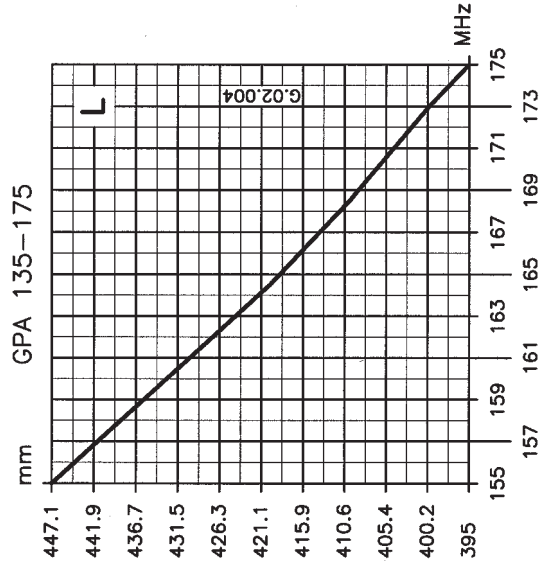
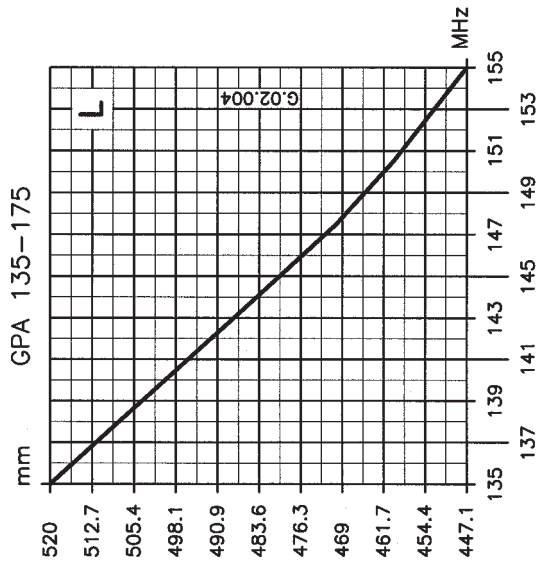
TYPICAL RADIATION PATTERN in E-plane at 108 MHz
File: E-02-003 Scale: linear



TYPICAL S.W.R. RESPONSE
Model: CPA 108-136 File: F-02-003

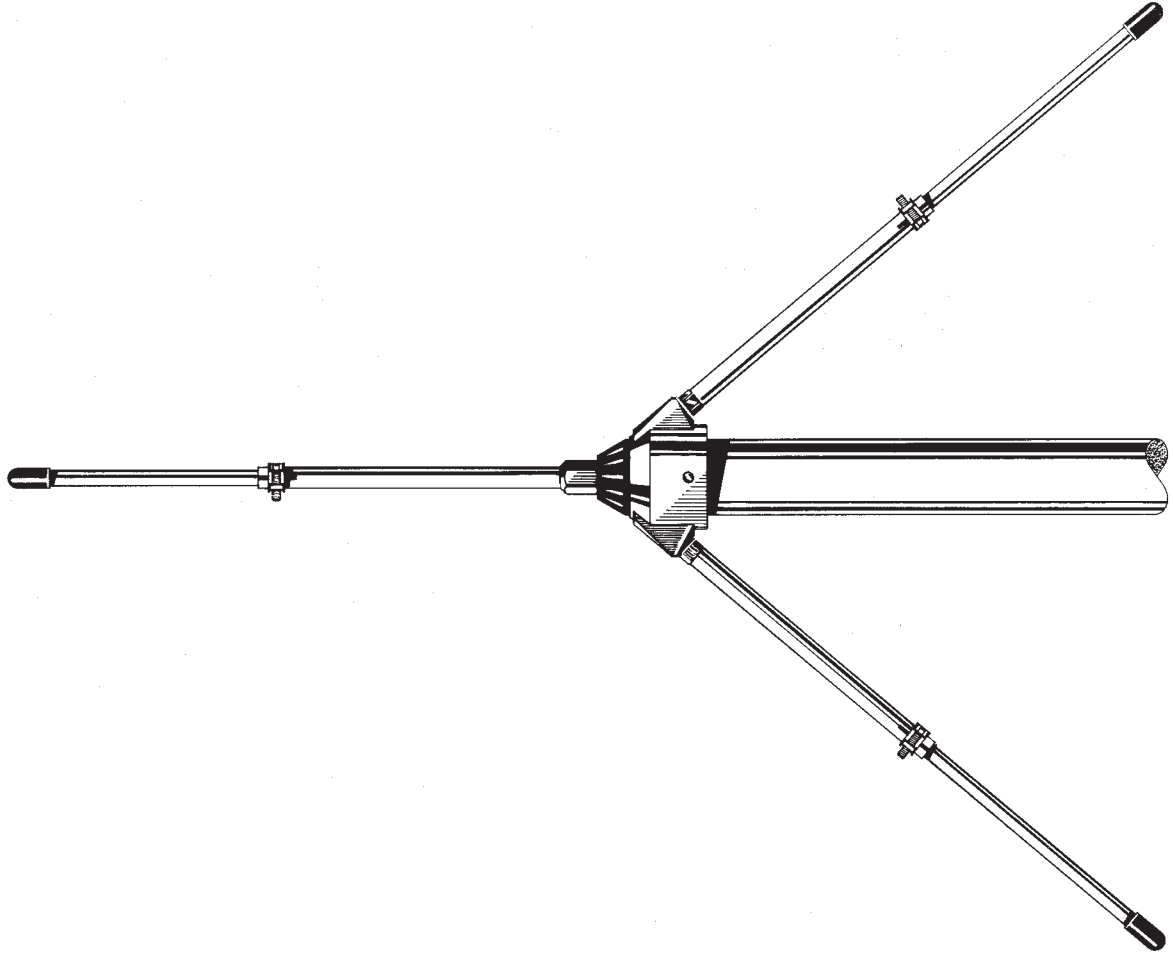


TYPICAL TUNING DIAGRAMS



Model GPA 135-175

VHF Ground Plane Antenna 135-175 MHz

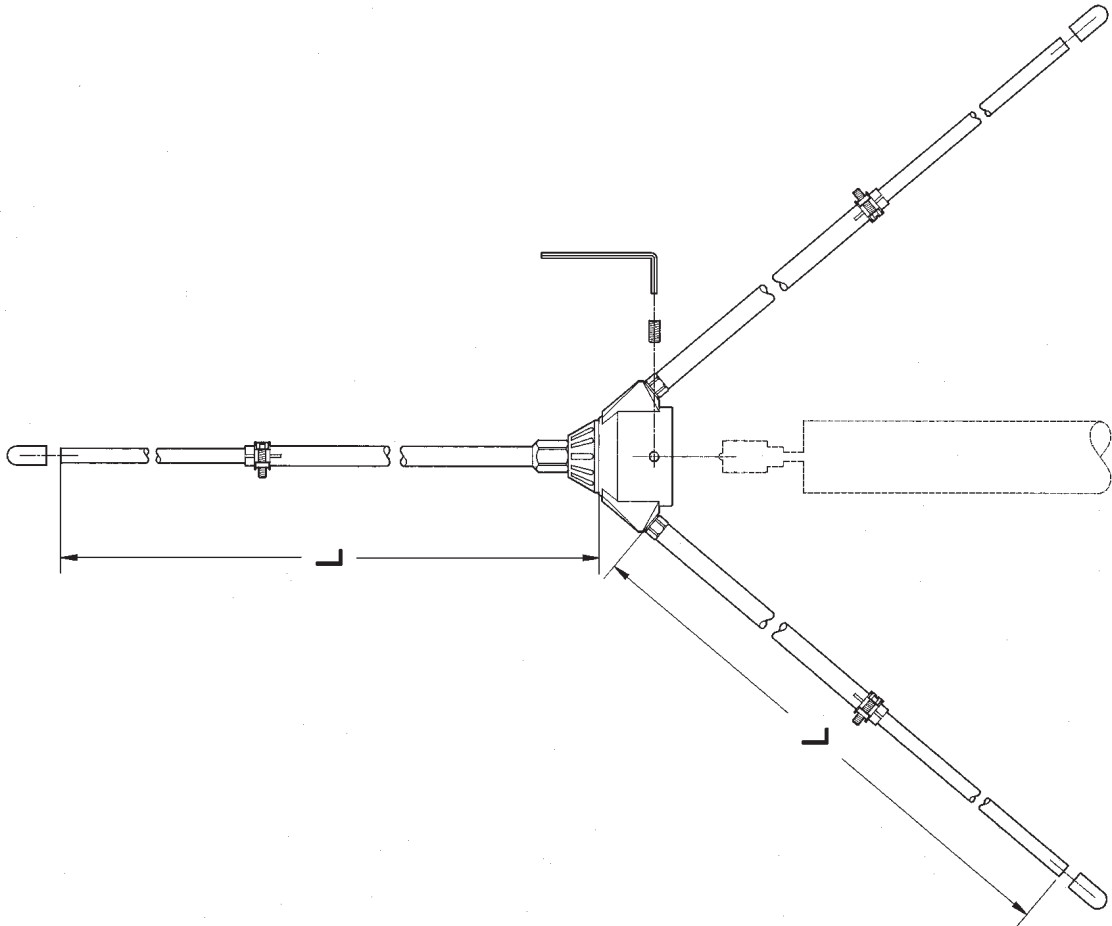


NOTE:

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

Installation Manual

MOUNTING INSTRUCTIONS



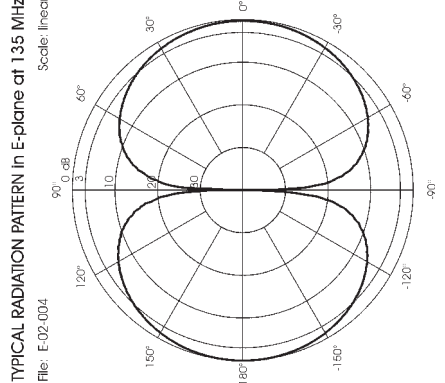
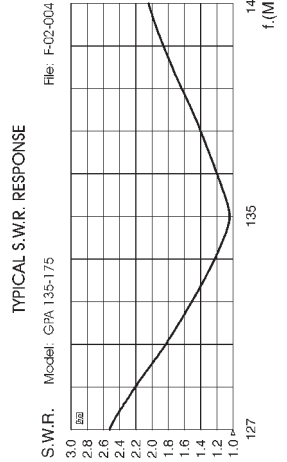
DESCRIPTION

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.

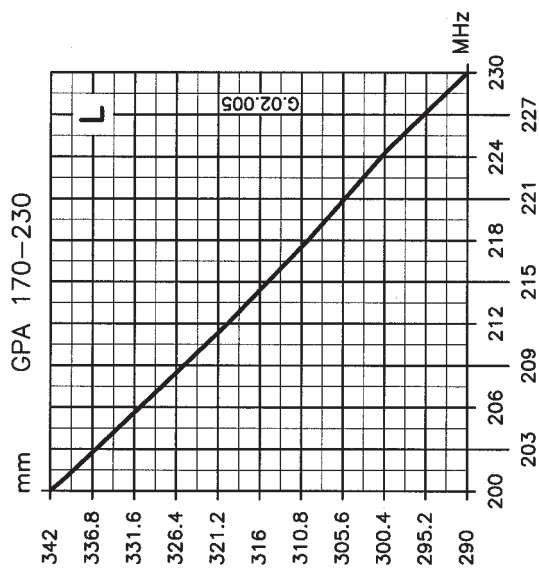
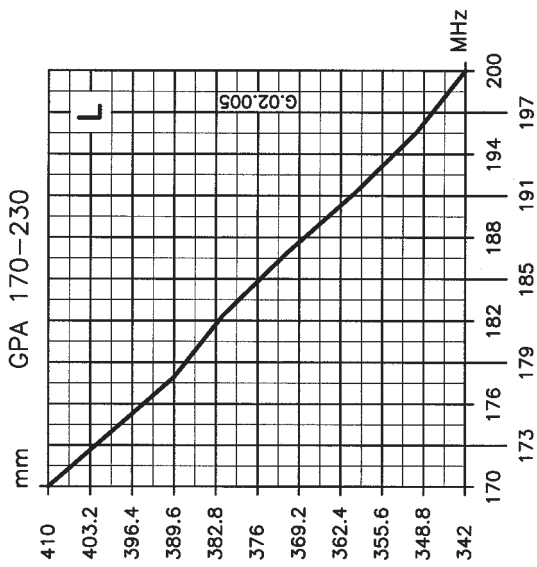
SPECIFICATIONS

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

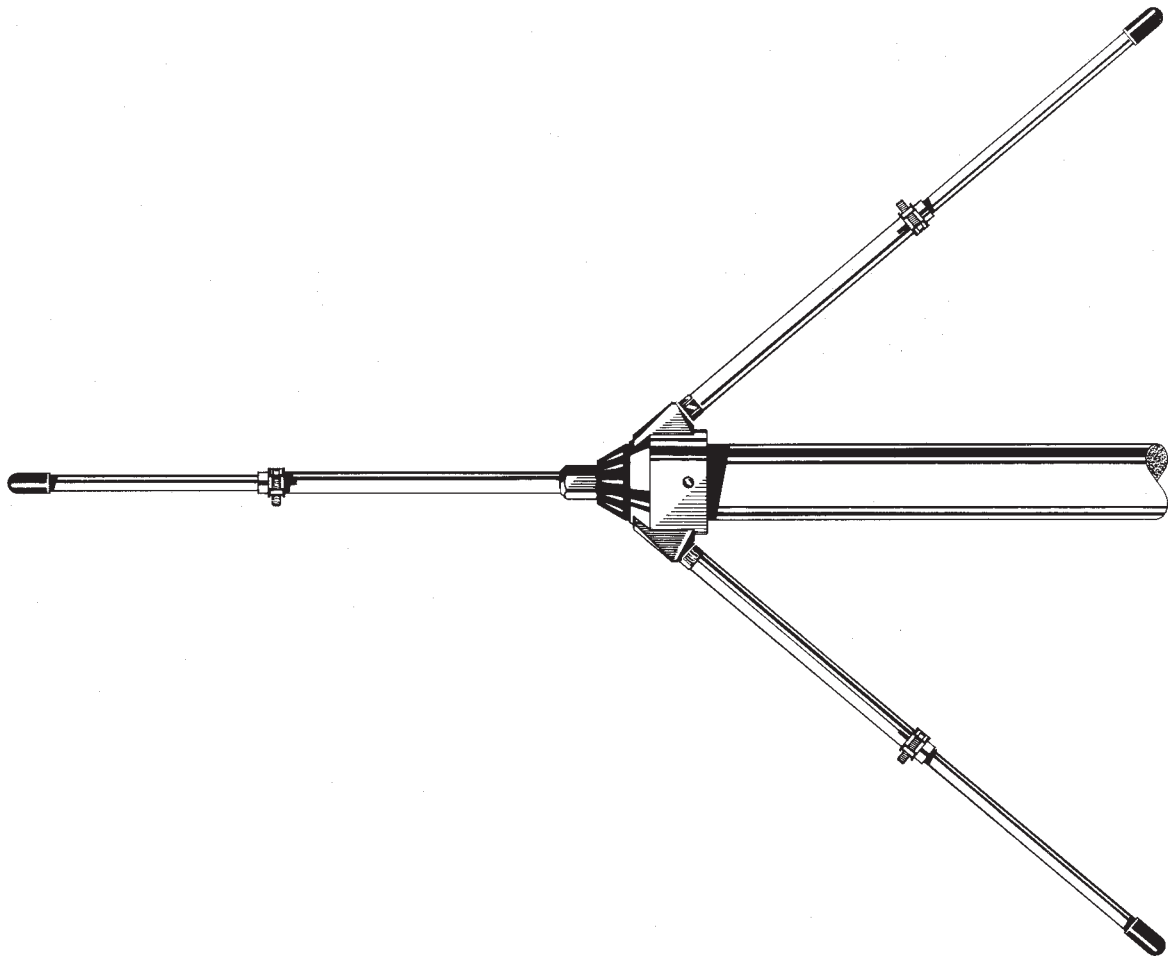
Mechanical Data	:	Aluminium, Chromed Brass, Nylon, Stainless Steel
Materials	:	29 N at 150 Km/h / 180 Km/h
Wind Load / Resistance	:	0.03 m ²
Wind Surface	:	960 mm
Height (approx.)	:	520 gr
Weight (approx.)	:	520 mm
Radial Length (approx)	:	Ø 35-40 mm
Mounting Mast	:	



TYPICAL TUNING DIAGRAMS



Model GPA 170-230
VHF Ground Plane Antenna 170-230 MHz

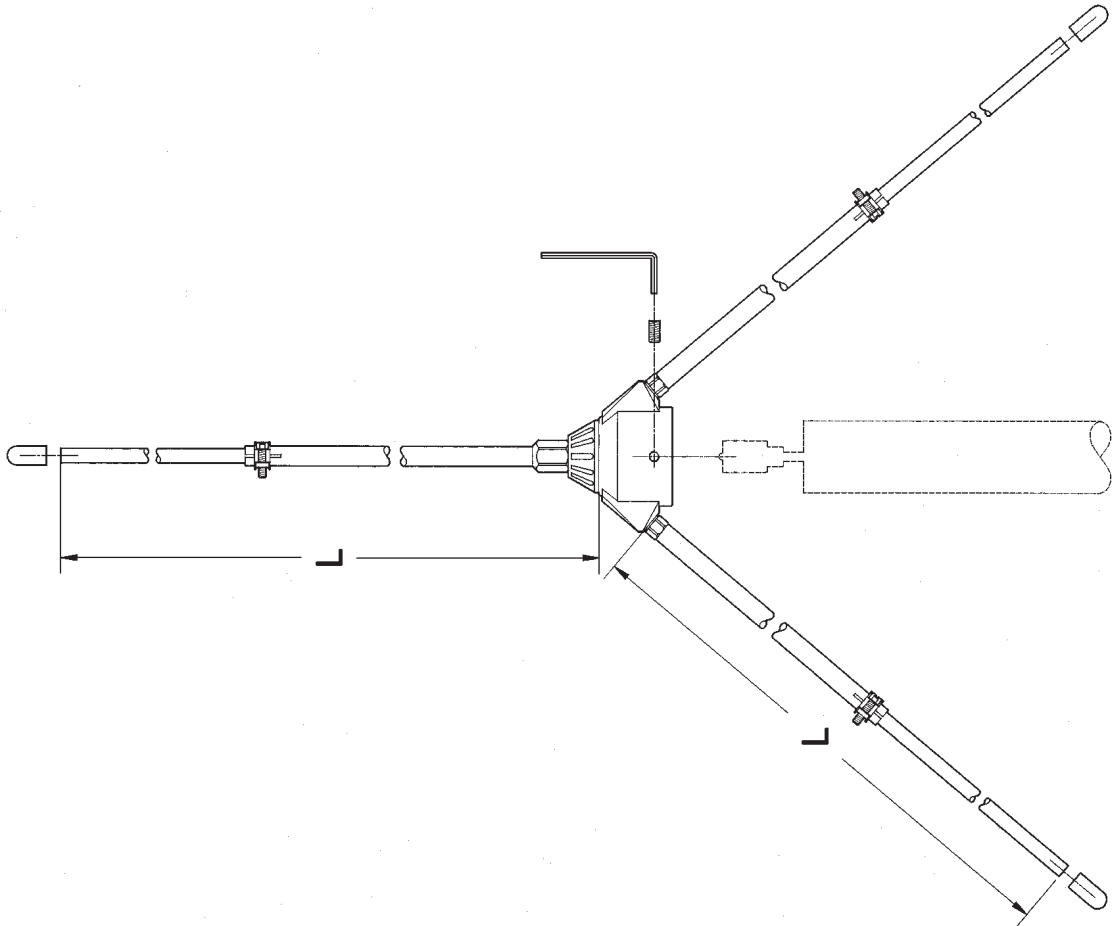


NOTE:

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

Installation Manual

MOUNTING INSTRUCTIONS



DESCRIPTION

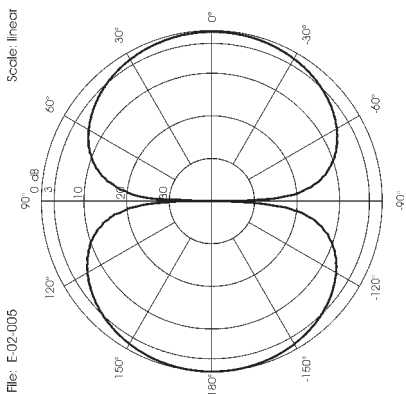
1/4 λ Ground Plane antenna for base station service working on 170-230 MHz by means of the tuning diagram enclosed. It is entirely made of non-corrosive aluminium and assembled on a strong die-cast base which allows an easy and safe installation assuring very good performances.

SPECIFICATIONS

Electrical Data	:	1/4 λ Ground Plane
Type	:	170-230 MHz tunable by diagram
Frequency Range	:	50 Ω Unbalanced
Impedance	:	360° Omnidirectional
Radiation (H-plane)	:	Beamwidth at -3 dB = 86°
Radiation (E-plane)	:	0°
Radiation angle deg.	:	Vertical
Polarization	:	0 dBd - 2.15 dBi
Gain	:	19 MHz at 170 MHz
Bandwidth at V.S.W.R. 2:1	:	≤ 1.2 : 1
V.S.W.R. at res. freq.	:	300 Watts
Max Power	:	Direct / Center
Feed System / Position	:	UHF Female
Connection	:	

Mechanical Data	:	Aluminium, Chromed Brass, Nylon, Stainless Steel
Materials	:	24 N at 150 Km/h / 180 Km/h
Wind Load / Resistance	:	0.02 m ²
Wind Surface	:	760 mm
Height (approx.)	:	480 gr
Weight (approx.)	:	410 mm
Radial Length (approx)	:	∅ 35-40 mm
Mounting Mast	:	

TYPICAL RADIATION PATTERN In E-plane at 170 MHz



TYPICAL S.W.R. RESPONSE

