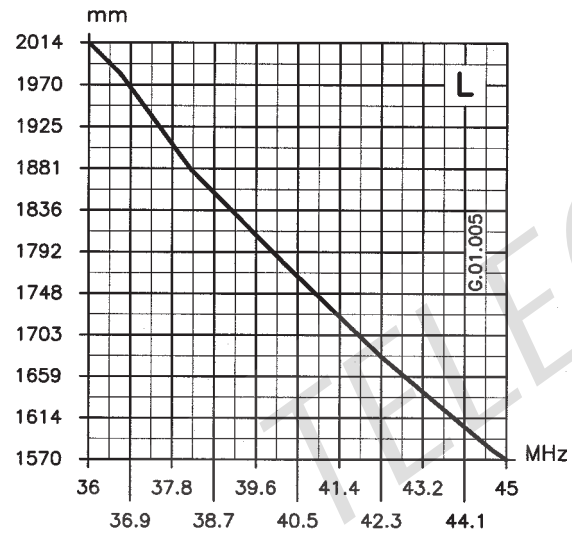
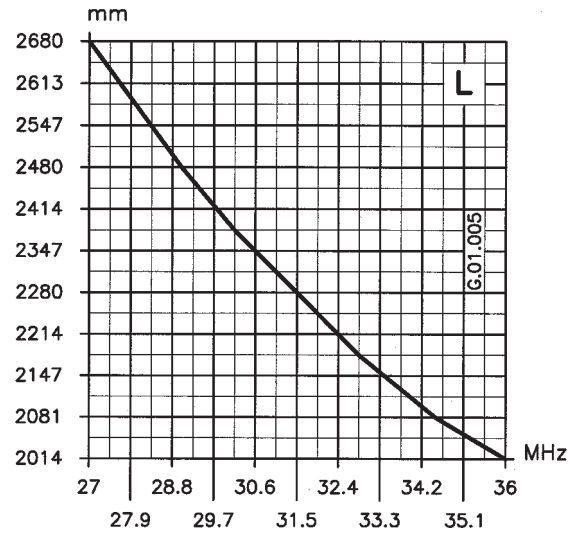


TYPICAL TUNING DIAGRAMS

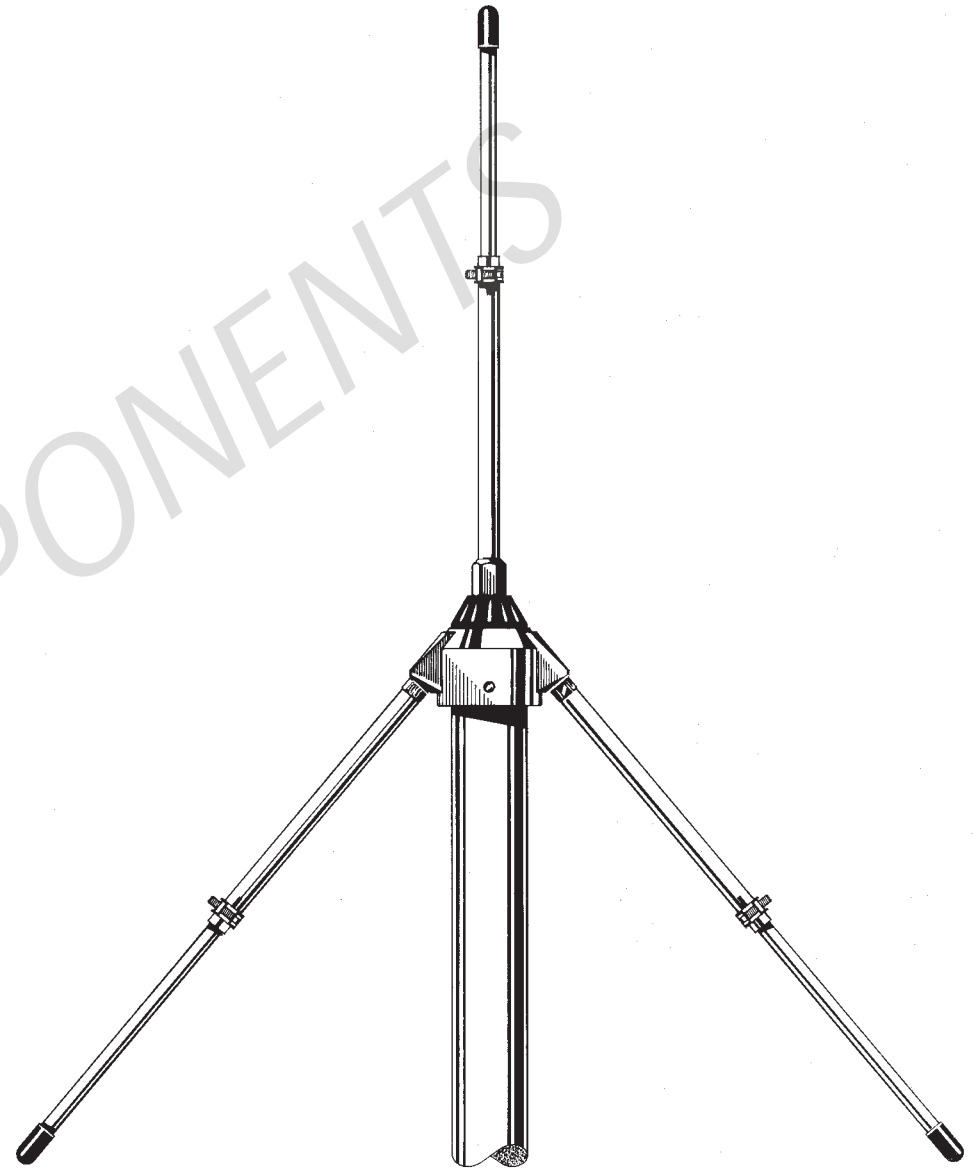


NOTE:

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

Model TGP 27-45

Ground Plane Antenna 27-45 MHz



Installation Manual

DESCRIPTION

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.

SPECIFICATIONS

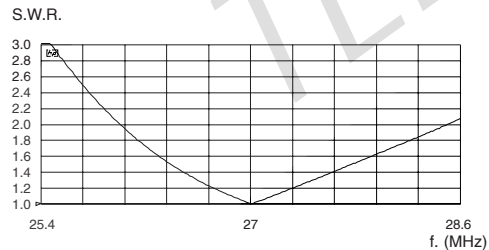
Electrical Data

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

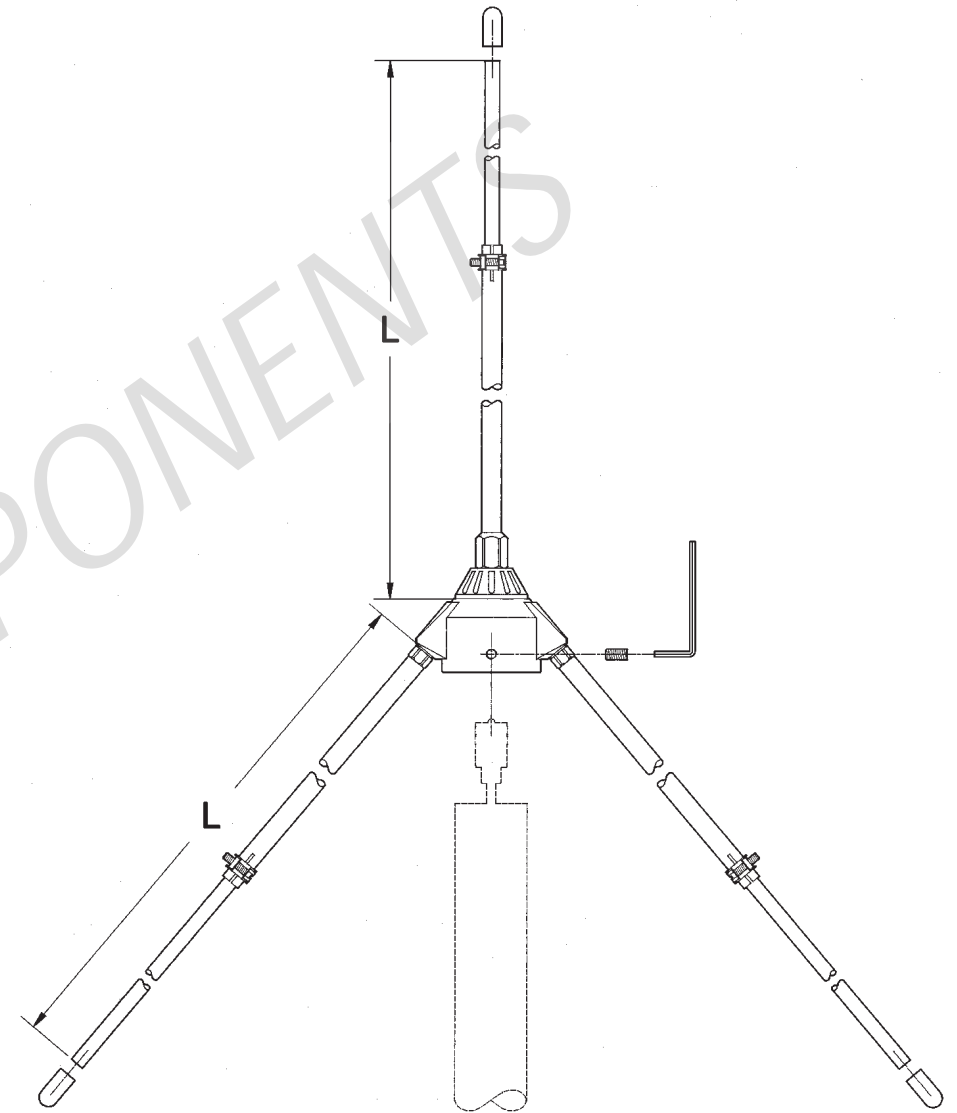
Mechanical Data

Materials	:	Aluminium, Chromed Brass, Nylon, Stainless Steel
Wind Load / Resistance	:	126 N at 150 Km/h / 130 Km/h
Wind Surface	:	0.11 m ²
Height (approx.)	:	4730 mm
Weight (approx.)	:	1250 gr
Radial Length (approx)	:	2680 mm
Mounting Mast	:	\varnothing 35-40 mm

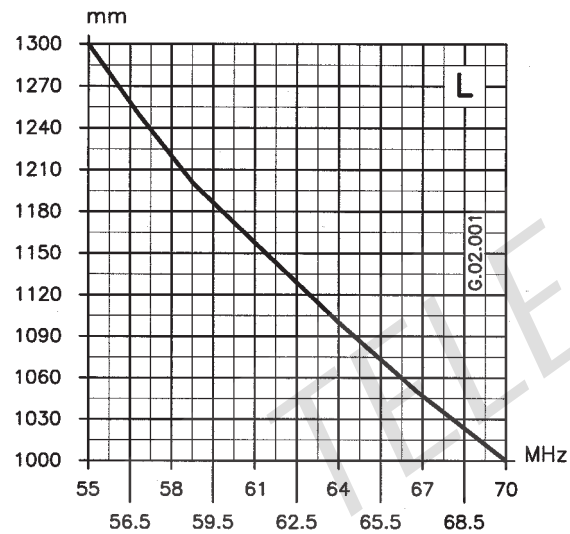
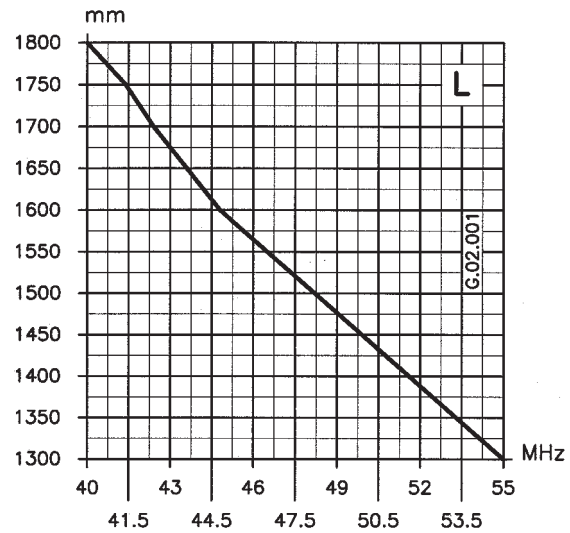
TYPICAL S.W.R. RESPONSE



MOUNTING INSTRUCTIONS



TYPICAL TUNING DIAGRAMS



NOTE:

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

Model TGP 40-70

VHF Ground Plane Antenna 40-70 MHz



Installation Manual

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

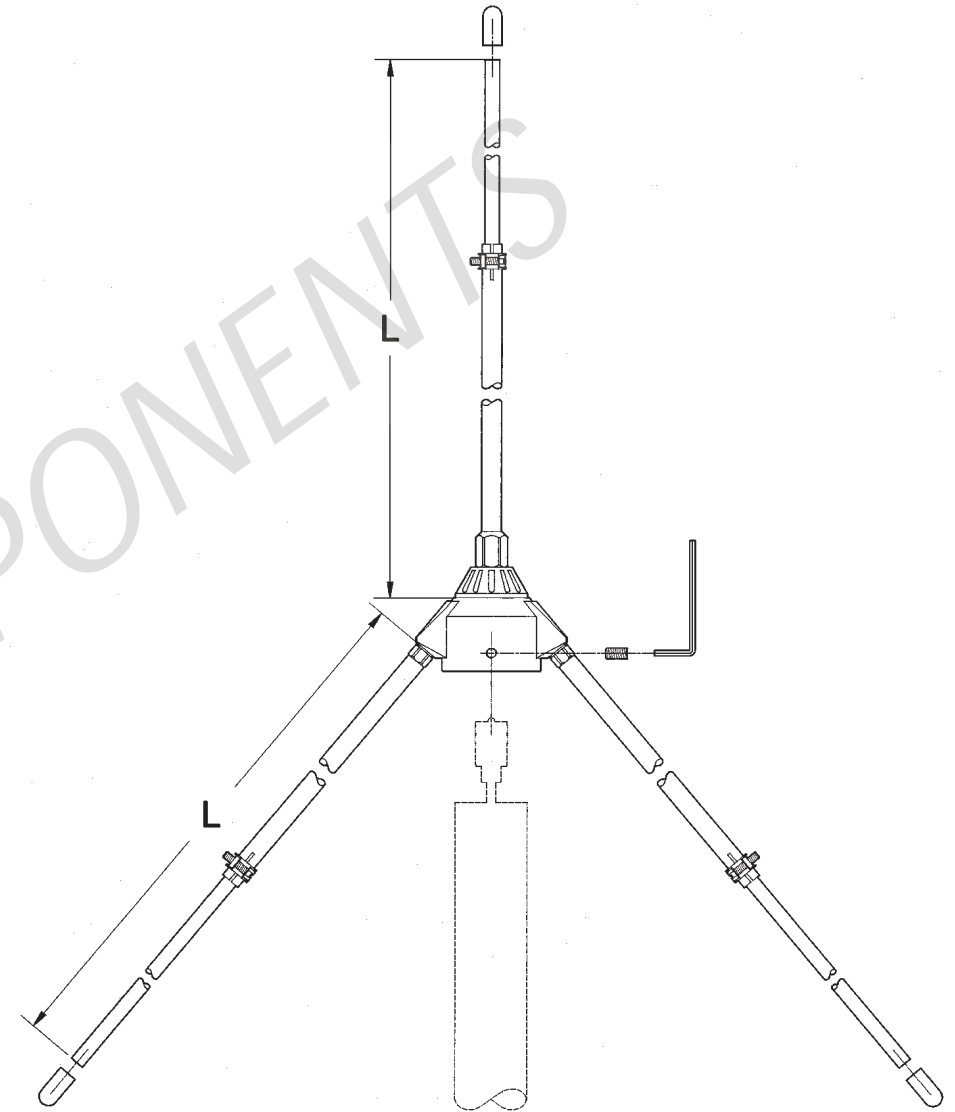
Electrical Data

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

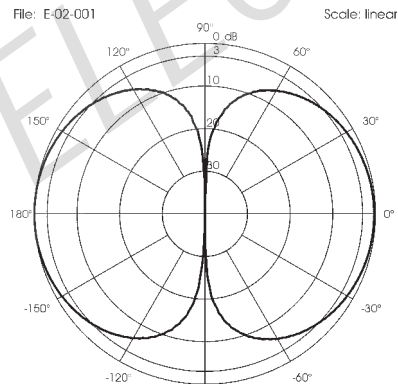
Mechanical Data

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

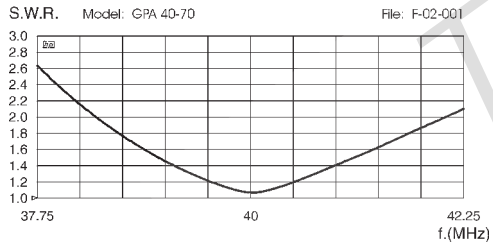
MOUNTING INSTRUCTIONS



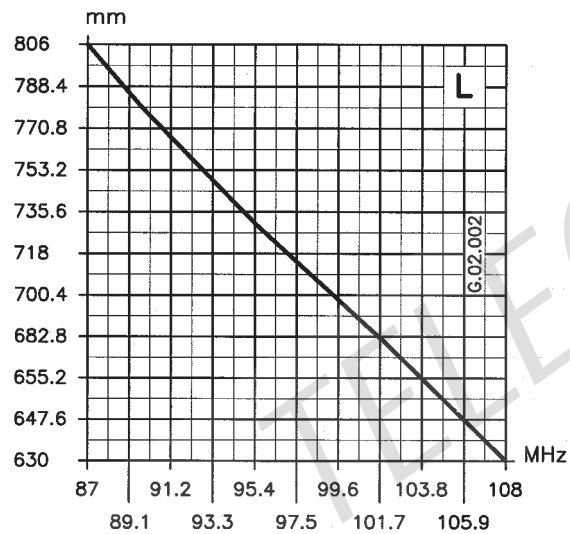
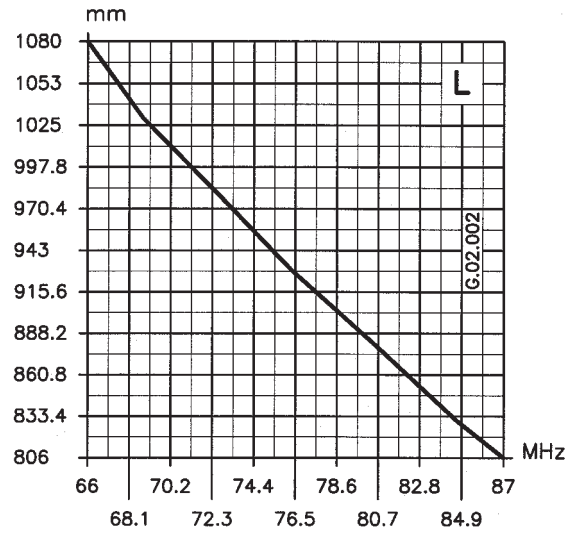
TYPICAL RADIATION PATTERN in E-plane at 40 MHz



TYPICAL S.W.R. RESPONSE



TYPICAL TUNING DIAGRAMS



NOTE:

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

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



Installation Manual

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.

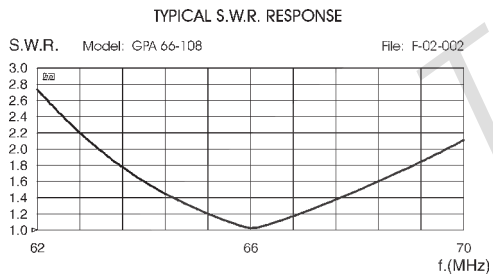
SPECIFICATIONS

Electrical Data

Type	: 1/4 λ Ground Plane
Frequency Range	: 66-108 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 - 2.14 dBi
Bandwidth at V.S.W.R. 2:1	: 6.5 MHz at 66 MHz
V.S.W.R. at res. freq.	: $\leq 1.2 : 1$
Max Power	: 500 Watts
Feed System / Position	: Direct / Center
Connection	: UHF Female

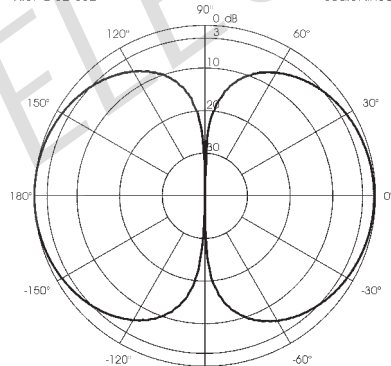
Mechanical Data

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

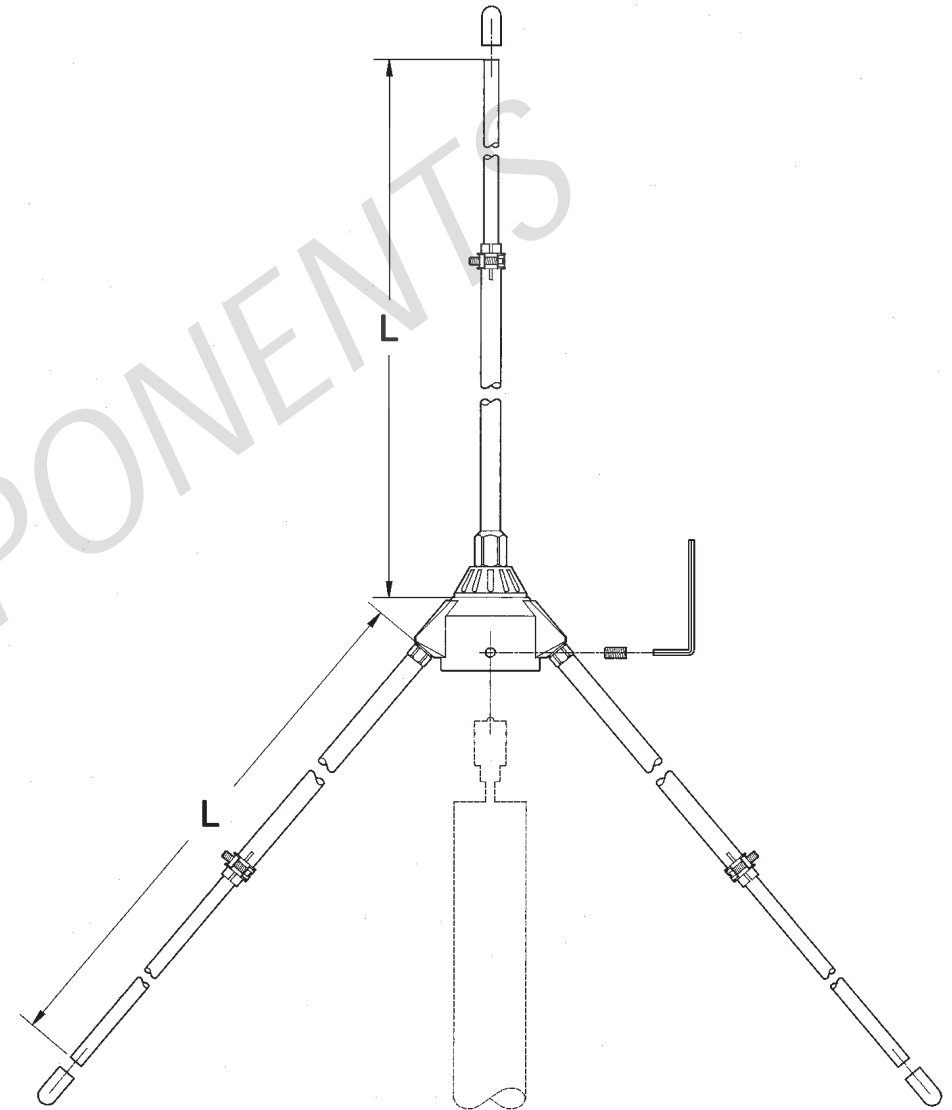


TYPICAL RADIATION PATTERN in E-plane at 66 MHz

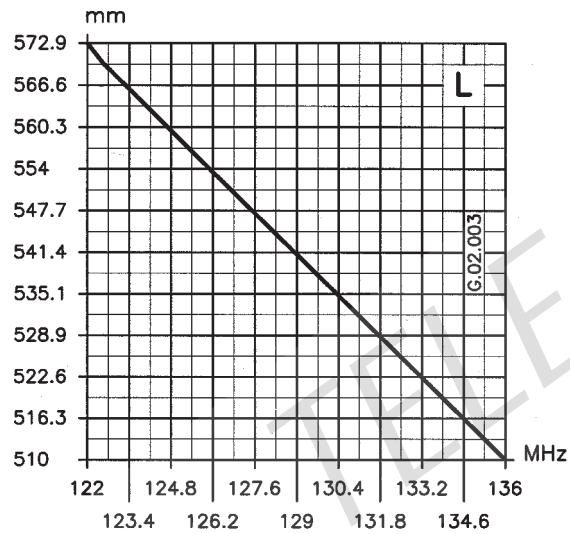
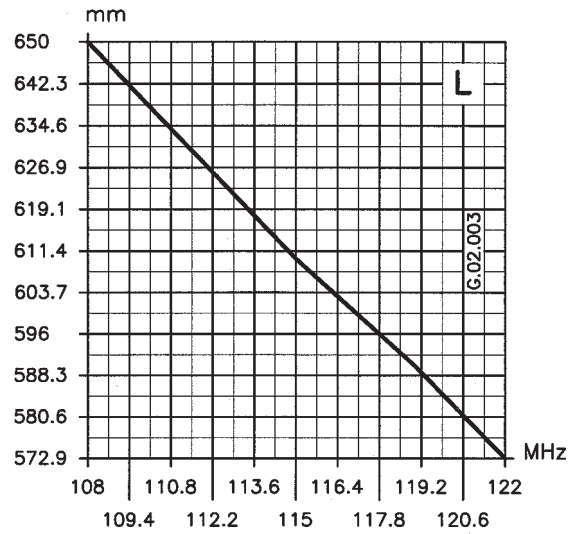
File: E-02-002 Scale: linear



MOUNTING INSTRUCTIONS



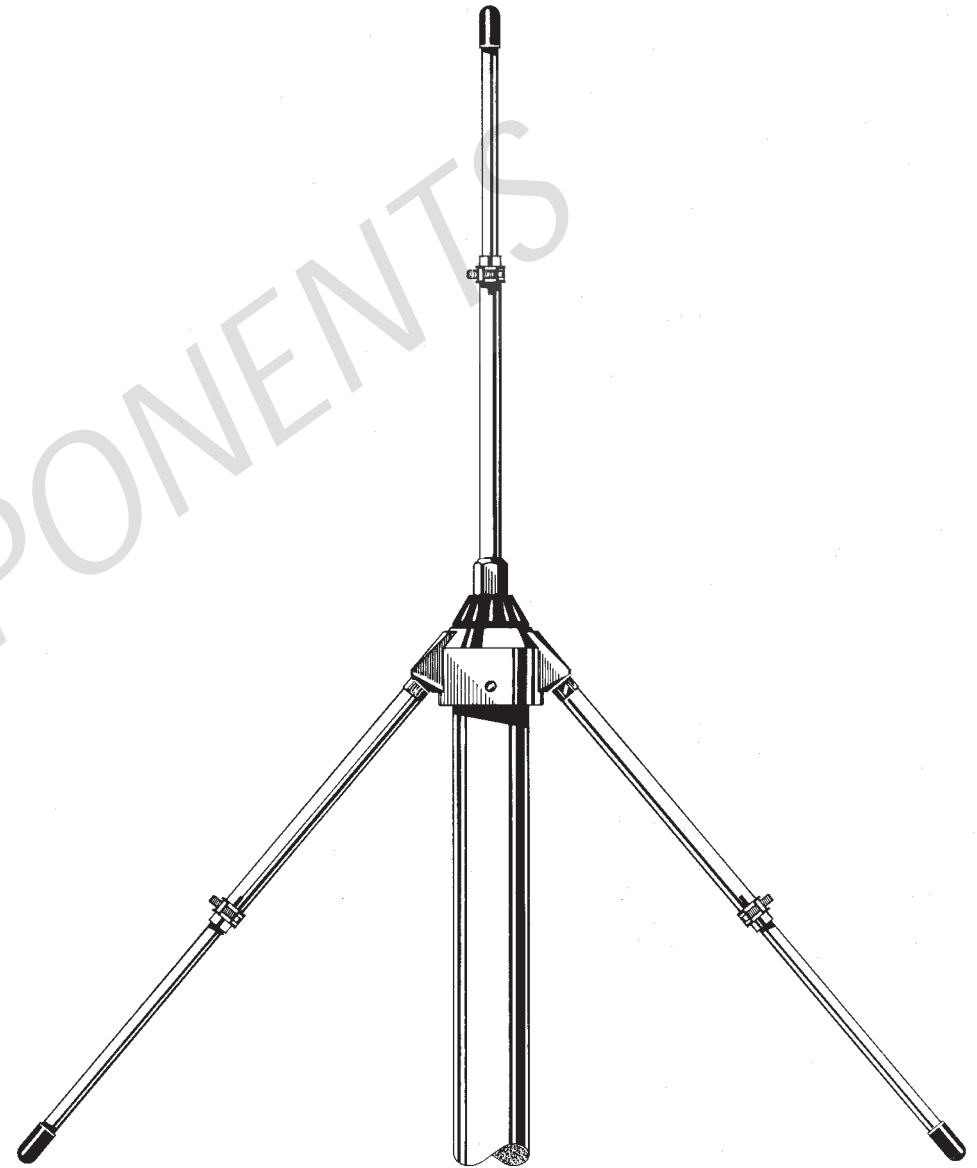
TYPICAL TUNING DIAGRAMS



NOTE:

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

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



Installation Manual

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.

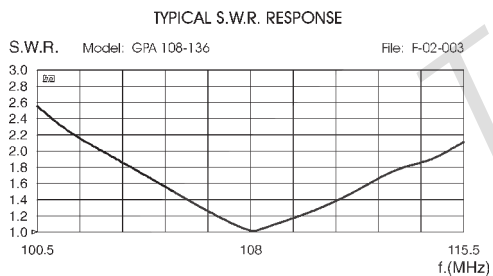
SPECIFICATIONS

Electrical Data

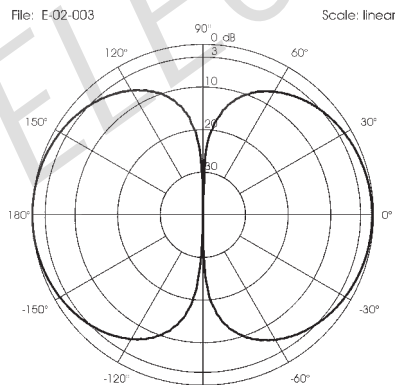
Type	:	1/4 λ Ground Plane
Frequency Range	:	108-136 MHz tunable by diagram
Impedance	:	50 Ω Unbalanced
Radiation (H-plane)	:	360° Omnidirectional
Radiation (E-plane)	:	Beamwidth at -3 dB = 86°
Radiation angle deg.	:	0°
Polarization	:	Vertical
Gain	:	0 dBd - 2.15 dBi
Bandwidth at V.S.W.R. 2:1	:	12 MHz at 108 MHz
V.S.W.R. at res. freq.	:	$\leq 1.2 : 1$
Max Power	:	500 Watts
Feed System / Position	:	Direct / Center
Connection	:	UHF Female

Mechanical Data

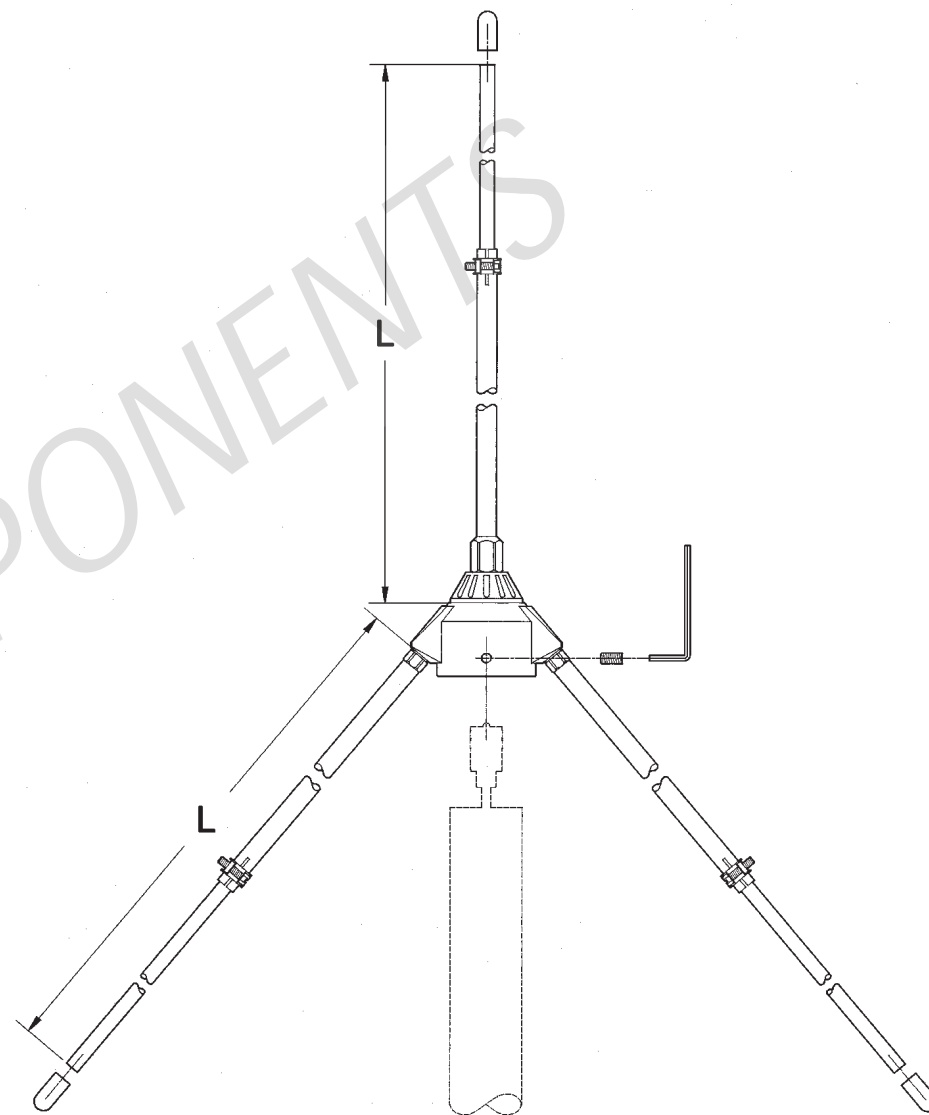
Materials	:	Aluminium, Chromed Brass, Nylon, Stainless Steel
Wind Load / Resistance	:	35 N at 150 Km/h / 150 Km/h
Wind Surface	:	0.03 m ²
Height (approx.)	:	1185 mm
Weight (approx.)	:	565 gr
Radial Length (approx.)	:	650 mm
Mounting Mast	:	\varnothing 35-40 mm



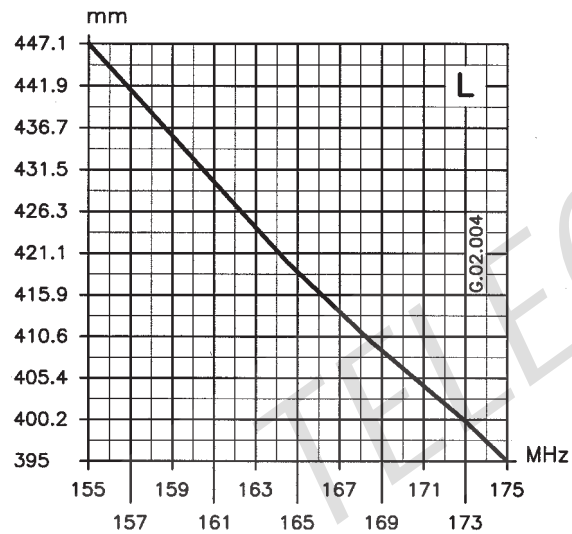
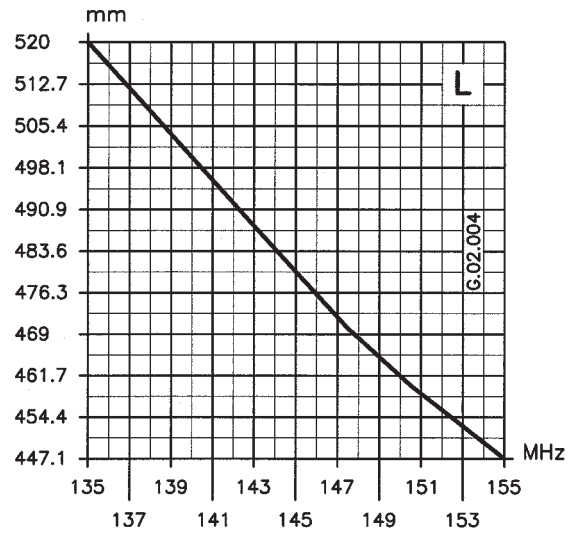
TYPICAL RADIATION PATTERN in E-plane at 108 MHz



MOUNTING INSTRUCTIONS



TYPICAL TUNING DIAGRAMS



NOTE:

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

Model TGP 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.

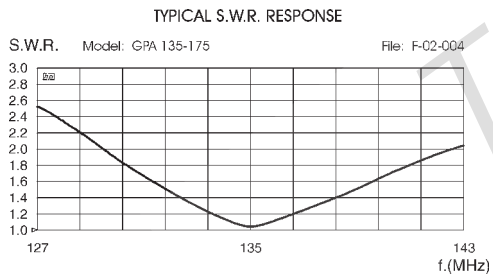
SPECIFICATIONS

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

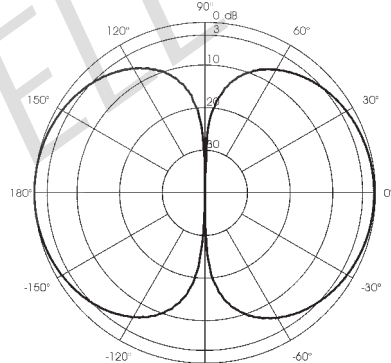
Mechanical Data

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

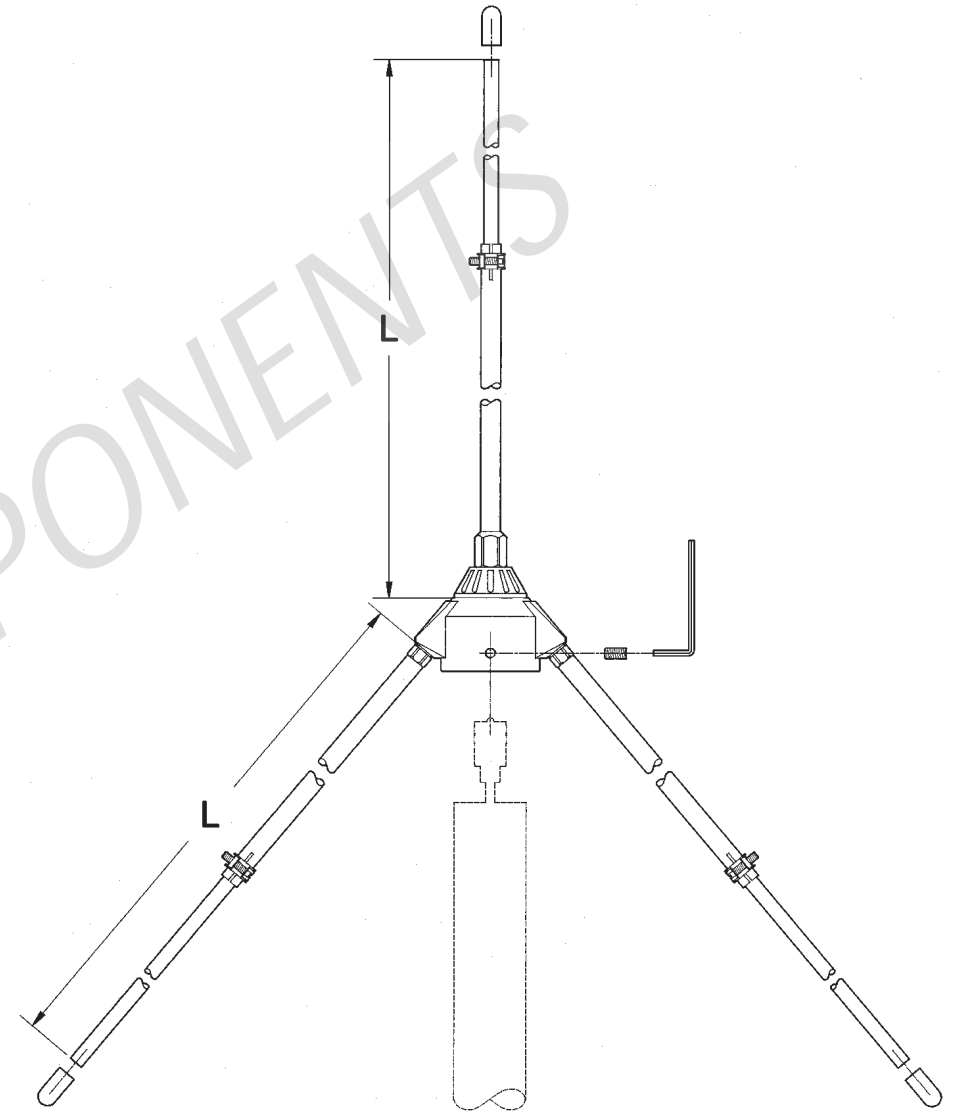


TYPICAL RADIATION PATTERN in E-plane at 135 MHz

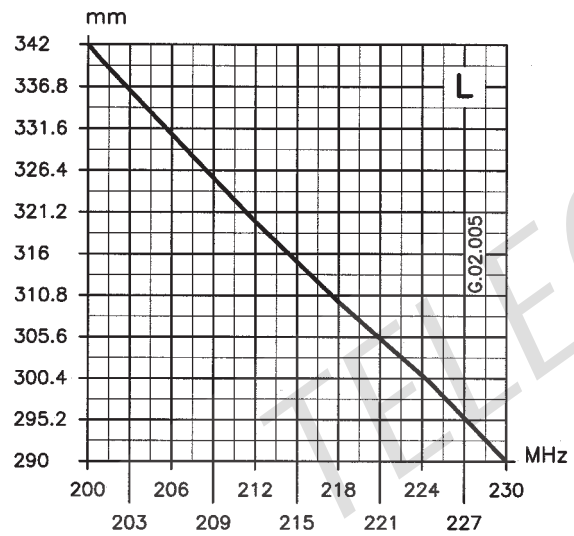
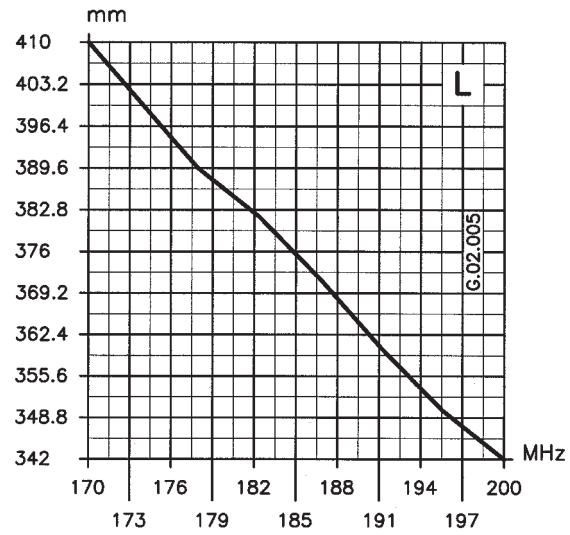
File: E-02-004 Scale: linear



MOUNTING INSTRUCTIONS



TYPICAL TUNING DIAGRAMS



NOTE:

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

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



Installation Manual

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.

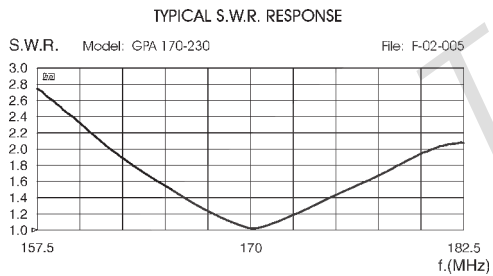
SPECIFICATIONS

Electrical Data

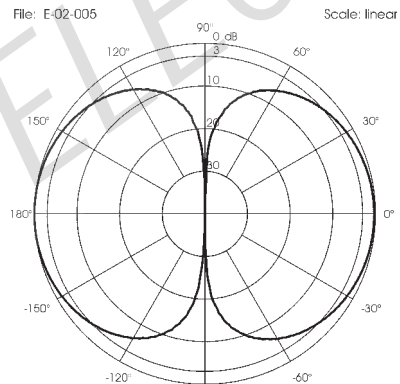
Type	: 1/4 λ Ground Plane
Frequency Range	: 170-230 MHz tunable by diagram
Impedance	: 50 Ω Unbalanced
Radiation (H-plane)	: 360° Omnidirectional
Radiation (E-plane)	: Beamwidth at -3 dB = 86°
Radiation angle deg.	: 0°
Polarization	: Vertical
Gain	: 0 dBd - 2.15 dBi
Bandwidth at V.S.W.R. 2:1	: 19 MHz at 170 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	: 24 N at 150 Km/h / 180 Km/h
Wind Surface	: 0.02 m ²
Height (approx.)	: 760 mm
Weight (approx.)	: 480 gr
Radial Length (approx)	: 410 mm
Mounting Mast	: \varnothing 35-40 mm



TYPICAL RADIATION PATTERN in E-plane at 170 MHz



MOUNTING INSTRUCTIONS

