



SIRIO

antenne

Base antennas

VHF 30-300MHz

GPF 21-N

Ground Plane Fiber 135...175 MHz

Features:

- # Base station antenna, Mono-band
- # Low-gain, Omnidirectional
- # Suitable for land and marine service
- # Tunable by whip cutting
- # Protection from static discharges DC-Ground
- # Stainless steel hardware and radials
- # Equipped with anodized aluminium bracket for an easy side mast installation
- # High quality whip made of brass and copper protected by fiberglass tube

Electrical Data	GPF 21 N
Type	5/8 λ Ground Plane
Frequency Range	tunable 135...175 MHz
Impedance	50 Ω
Radiation (H-plane)	360° Omnidirectional
Radiation (E-plane)	Beamwidth @ -3dB = 80°
Radiation angle deg.	28°
Polarization	Linear Vertical
Gain	1.5 dBd - 3.65 dBi
SWR @ res. freq.	see diagram
Bandwidth @ SWR ≤ 2	see diagram
Max Power (CW) @ 30°C	200 Watts
Grounding Protection	All metal parts are DC-grounded, inner conductor shows a DC short
Connector	N-female, gold plated central pin

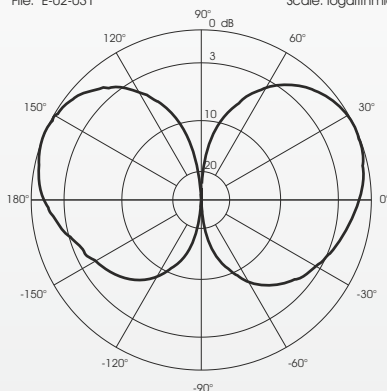
Mechanical Data

Materials	Fiberglass, Aluminium, Brass
Wind Load at 150 km/h	55 N
Wind Resistance	200 Km/h, 125 mi/h
Wind Surface	0.05 m ² , 0.53 ft ²
Height (approx.)	1730 mm, 5.7 ft
Weight (approx.)	1200 gr, 3.8 lb
Radial Length (approx.)	495 mm, 1.6 ft
Mounting Mast	$\varnothing$ 35-54 mm, $\varnothing$ 1.4-3.1 in
P/N	2109720.00

TYPICAL RADIATION PATTERN in E-plane at 145 MHz

File: E-02-031

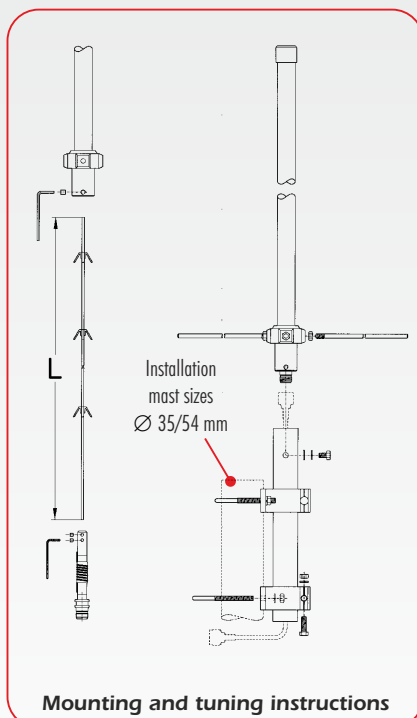
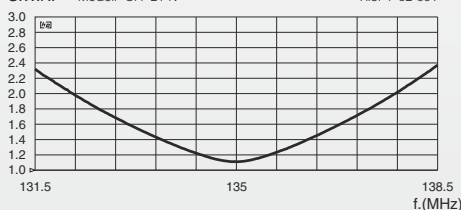
Scale: logarithmic



TYPICAL S.W.R. RESPONSE

S.W.R. Model: GPF 21-N

File: F-02-031



Mounting and tuning instructions

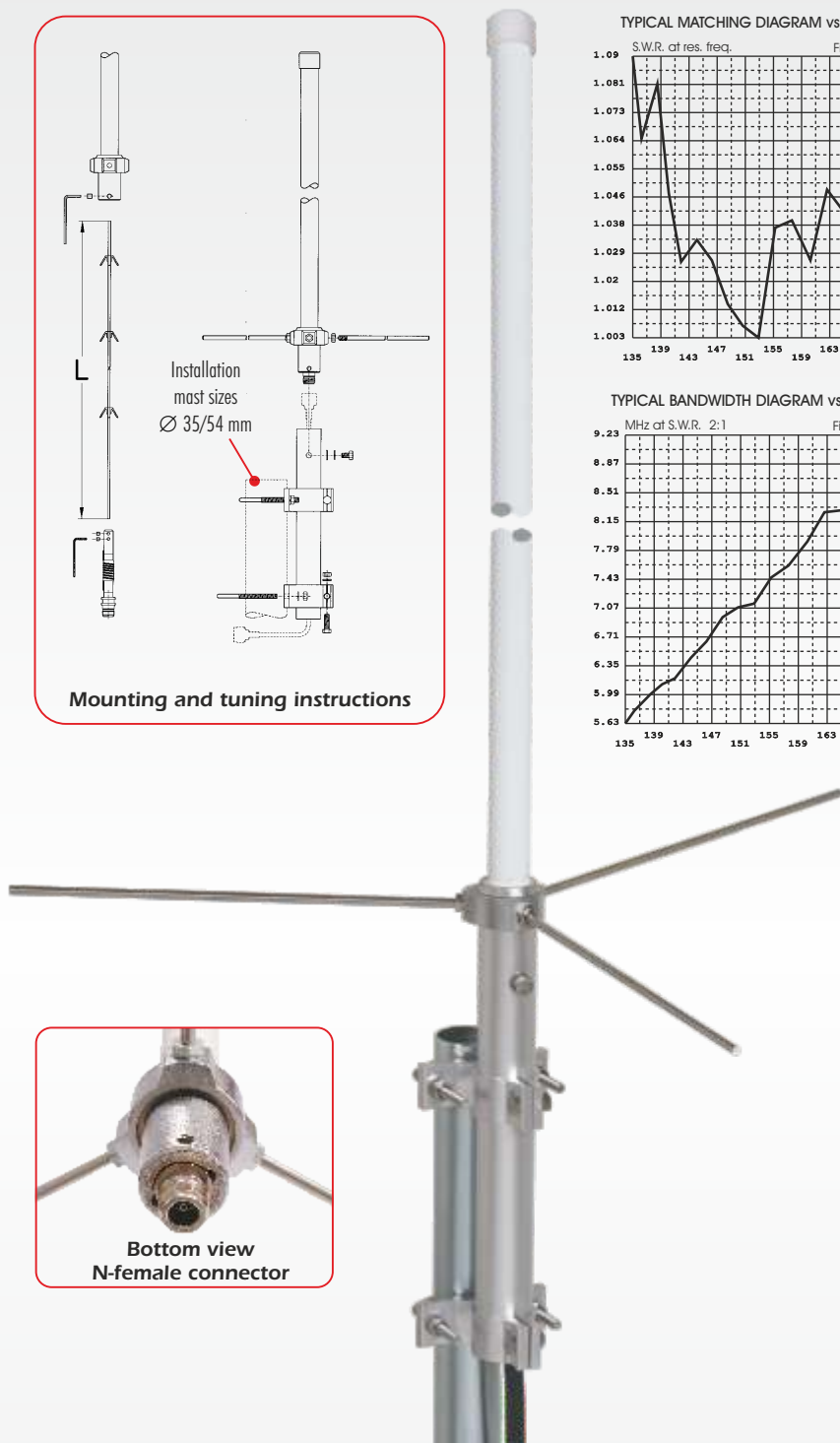
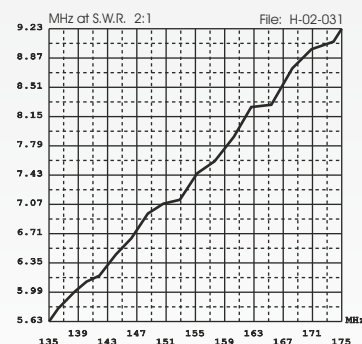


Bottom view
N-female connector

TYPICAL MATCHING DIAGRAM vs FREQUENCY

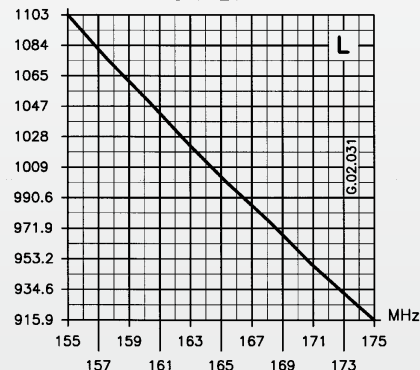


TYPICAL BANDWIDTH DIAGRAM vs FREQUENCY



TYPICAL TUNING DIAGRAMS*

* Use the curves just as a guide. For fine-tuning please use an SWR-meter



SINCE 1972

HIGH-TECHNOLOGY ANTENNAS DESIGNED & MANUFACTURED IN ITALY