

GPS-2 Combi Series

VHF (144 - 174 MHz) 0 dBd Mobile Whip and GNSS Combination Base Kit

The GPS-2 Combi series offers several whip and base combinations for roof mounting. Combining an integrated GNSS antenna and a unity gain VHF whip, specifically 144 - 174 MHz.

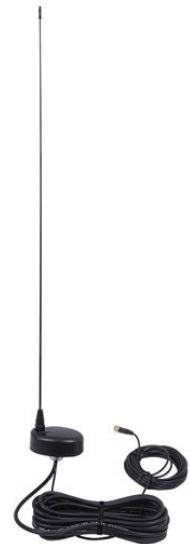
With a meticulously constructed base made of PA and black chromed brass, it is durable and strong.

All antenna whips are made of stainless steel, black chromed to withstand the harshest conditions.

- GPS-2 - GNSS Base and $\lambda/4$ whip
- GPS-2R - GNSS Base and $\lambda/4$ whip with adjustable tilt
- GPS-2M - GNSS Base and $\lambda/4$ whip with a conical spring

ELECTRICAL SPECIFICATIONS

| | |
|------------------------------|-----------------------------------------------------------|
| Type | Whip antenna ($\lambda/4$) and GNSS Base Kit |
| Frequency | 144 - 174 MHz, 1575.42 MHz (External Antenna Whips, GNSS) |
| Bandwidth | 3% of f.res (VSWR \leq 1.5:1) |
| V.S.W.R | \leq 1.3:1 @ f.res |
| Impedance | 50 Ohm |
| Polarisation | Linear (VHF), RHC (Right Hand Circular)(GNSS) |
| Gain | 0 dBd, 2.15 dBi (VHF) |
| Satellite System | GPS and Galileo |
| LNA Gain | 26 dB (GNSS) |
| Noise Figure | 1.8 dB (GNSS) |
| Supply Voltage | 2.7 - 5.5 VDC |
| Current Consumption, Average | 12 mA @ 2.7 VDC 27 mA @ 5.5 VDC |
| Max. Input Power | 150 W (VHF) |



Datasheet

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MECHANICAL SPECIFICATIONS

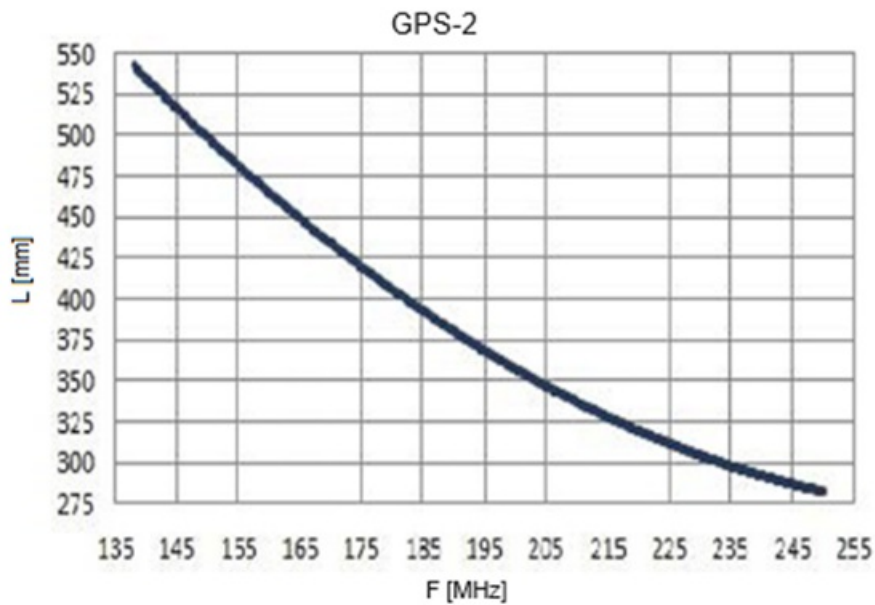
| | |
|-----------------------|--------------------------------------------------------------------------------|
| Color | Black |
| Dimensions | 600 x 70 x 50 mm |
| Weight | 450 g |
| Mounting Place | Vehicle roof (Metalic surface) |
| Mounting Hole | Ø 19.0 mm |
| Mounting Instructions | Antenna Whip must be cut to specified frequency. See cutting diagram. |
| Build-in Depth | Approx. 4 mm |
| Materials | Black Polamyde, PCB, Black chromed SS |
| Operating Temperature | -40 to + 70°C |
| Connector | Antenna Whip: UNF 5/16-24 Base: See "ORDERING INFO" (other types available) |
| Cable | See "ORDERING INFO" |
| Ingress Protection | IP65 (When mounted) |
| Serial No. | On product label |

ORDERING INFORMATION

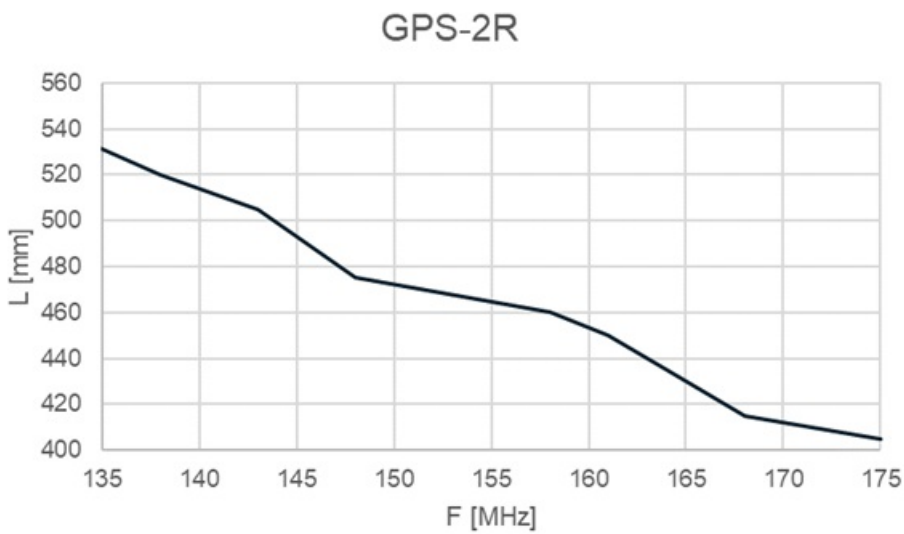
| | |
|--------|----------------------------------------------------------------------------------------------------------|
| GPS-2 | WGPS-2 (λ/4 whip) + BA-GPS (5.0 m RG-58 BNC(m) (VHF), 5.0 m RG-174 SMA(m) (GNSS)) |
| GPS-2R | WGPS-2R (λ/4 whip with adjustable tilt) + BA-GPS (5.0 m RG-58 BNC(m) (VHF), 5.0 m RG-174 SMA(m) (GNSS)) |
| GPS-2M | WGPS-2M (λ/4 whip with a conical spring) + BA-GPS (5.0 m RG-58 BNC(m) (VHF), 5.0 m RG-174 SMA(m) (GNSS)) |

PACKAGING INFORMATION

| | |
|------|-----|
| Type | Bag |
|------|-----|



Measured on a \varnothing 500 mm ground plane



GPS-2M

