

# 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	3 dBd, 5.15 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

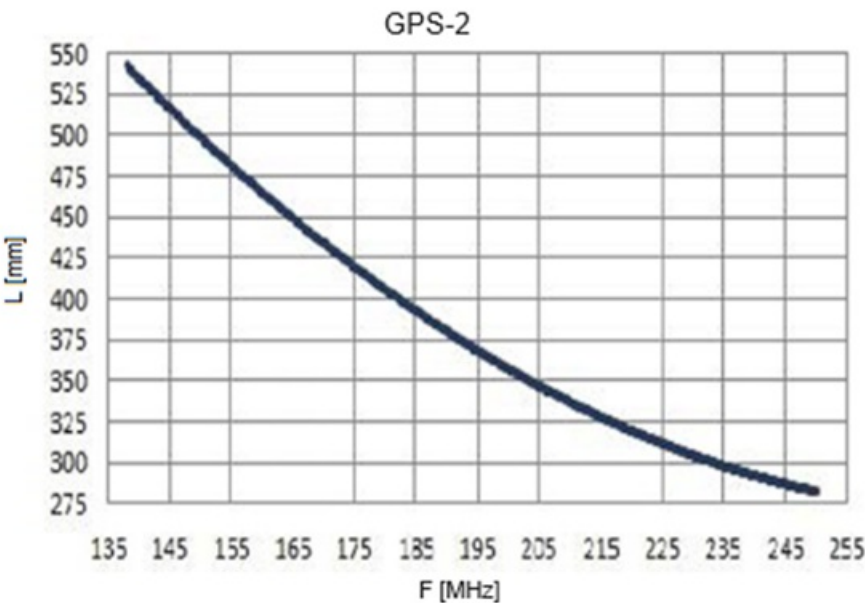
Color	Black
Dimensions	600 x 70 x 50 mm
Weight	450 g
Mounting Place	Vehicle roof (Metalic surface)
Mounting Hole	Ø 19.0 mm
Mounting Instructions	Antenna Whip must be cut to specified frequency. See cutting diagram.
Build-in Depth	Approx. 4 mm
Materials	Black Polamyde, PCB, Black chromed SS
Operating 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-2 (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-2 (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
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Measured on a Ø 500 mm ground plane

