

# GPS-70G Combi Series

## UHF (350- 500 MHz) 3 dBd Mobile Whip and GNSS Combination Base Kit

The GPS-70G Combi series offers two whip and base combinations for roof mounting. Combining an integrated GNSS antenna and a high gain UHF whip, specifically 300 - 500 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-70G - GNSS Base and  $5/8 \lambda$  whip
- GPS-70GR - GNSS Base and  $5/8 \lambda$  whip with adjustable tilt



## ELECTRICAL SPECIFICATIONS

Type	Whip antenna ( $5/8 \lambda$ ) and GNSS Base Kit
Frequency	350   500 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 (UHF), RHC (Right Hand Circular)(GNSS)
Gain	3 dBd, 5.15 dBi (UHF)
Satellite System	GPS and Galileo
LNA Gain	24 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 (UHF)

## Datasheet

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## MECHANICAL SPECIFICATIONS

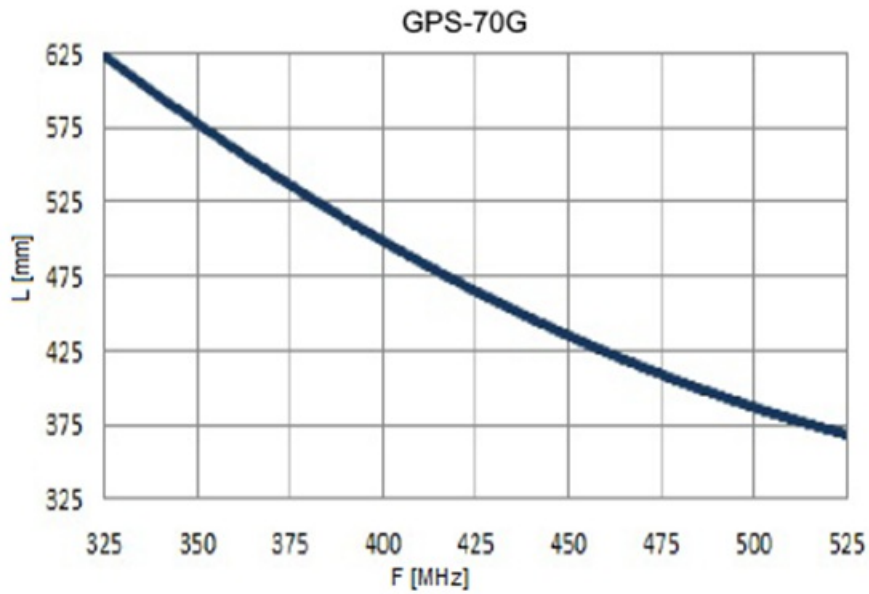
Color	Black
Dimensions	650 x 70 x 50 mm
Weight	480 g
Mounting Place	Vehicle roof (Metalic surface)
Mounting Hole	Ø 19.0 mm
Mounting Instructions	Antenna Whip must be cut to specified frequency. See cutting diagram.
Build-in Depth	Approx. 4 mm
Materials	Black Polamyde, PCB, Black chromed SS
Operating 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-70G	WGPS-70G (5/8 λ whip) + BA-GPS (5.0 m RG-58 BNC(m) (UHF), 5.0 m RG-174 SMA(m) (GNSS))
GPS-70GR	WGPS-70GR (5/8 λ whip with adjustable tilt) + BA-GPS (5.0 m RG-58 BNC(m) (UHF), 5.0 m RG-174 SMA(m) (GNSS))

## PACKAGING INFORMATION

Type	Bag
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Measured on a Ø 500 mm ground plane