

## MiniG™

### A GPS/Glonass antenna

Antenna designed for applications which require high positioning accuracy by combining signals from GPs and Glonass systems; various vehicle tracking, speed trap detectors, M2M applications.

Ideal for installations where a durable, stand alone antenna with small size is needed. Developed and approved according to Technical Requirements stated in Volkswagen Group TL80101. Fully IP67 waterproof ratings allows use in outdoor environments.

The antenna is designed with a High gain Low Noise Amplifier and low noise figure.

The antenna is manufactured in a strict first tier automotive quality controlled manufacturing process in a ISO-TS 16949 approved facility.

#### **GPS + Glonass functionality**

#### **High gain LNA**

#### **Low noise figure**

#### **IP 67**

#### **Verified and manufactured according to ISO-TS 16949**

#### **Approved component for Volkswagen Group**



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**SMARTEQ™**  
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## Specifications

### Electrical

GPS & Glonass frequency	1575.42 & 1598.06 - 1609.31 MHz
Bandwidth	2 MHz & 11.25 MHz
Impedance	50 ohm
Polarization	RHCP
LNA Gain (S21) @ Fc	29 dB
Noise figure @ BW	1.2 dB
VSWR @ Fc	1.5:1 ratio
Filter BW @ -2 dB	> 43 MHz
Filter BW @ -20 dB	< 120 MHz
Filter BW @ -35 dB	> 140 MHz
Filter center frequency	1592.5 MHz
Supply current @ 2.6 to 6 VDC	17 - 19 mA
Patch antenna gain @ zenit	3.5 dBic (measured at a 50x50 mm GP)
Axel ratio	3 dB
Supply voltage (Phantom feed)	2.6 - 10 VDC

### Mechanical

Dimension	37 x 32 x 14 (LxWxH) mm
IP class	67
Material Housing	ABS
Colour	Black

### Environmental

Temperature	Storage: -40°C +85°C
	Operating: -40°C +85°C

### Other

Cable	RG174
Connector	Connector defined by P/N see below Other connectors available upon request

### Product No

GPS-G-25-05-01D	Adhesive mount, 2.5m cable, SMA-m connector
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Smarteq reserves the right to change specifications without prior notice.

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Smarteq develops and supplies high-quality antennas and antenna systems for the wireless transfer of speech and data, communication to and from vehicles and machine to machine. Our staff is fully focused on developing high-performance antennas that will continue to set new standards of excellence that will exceed our customers' expectations



Smarteq is certified according to  
ISO/TS 16949, ISO 14001