

GPS/GLONASS ANTENNAS

Antenna GPS/GLONASS Magnetic

SECTRON company offers combined GPS / GLONASS and also GSM / GPS antennas for automotive purpose with various version differs by shape, level of gain or attachment manner.

SECTRON guarantee compatible connection between antenna and all antenna adaptors produced by SECTRON.

Features and benefits

- High performance GPS/GLONASS active patch
- Exceptional performance : 25/18 dB signal gain
- Low power consumption : 10 -15 mA, 3.0.V
- Firm magnetic attachment
- Available connectors: SMA, SMB90°, FAKRA C

 GLONASS GPS25/18
dB

3 m

RG
174/USMA
optionalSMB
90°
optionalFAKRA
optional

GPS Specification Patch

Center frequency	1575.42 MHz ± 1.023 MHz
Bandwith	8 MHz min.
Polarization	RHCP
Gain Peak	25 dB typ.
Gain Efficiency	76.21 % typ.
VSWR	< 2 : 1
Impedance	50 Ω

GPS Specification LNA

Center frequency	1575.42 MHz ± 1.023 MHz
Gain	27.5 dB typ. at 3V
Noise Figure	1.5 dB typ. at 3V
Output VSWR	< 2 : 1
Input voltage	2.5V-5V± 0.5 V
Current Consumption	10-15mA(at 3V)

* All values are defined at 25±15 °C, 65±20% RH,

GLONASS Specification Patch

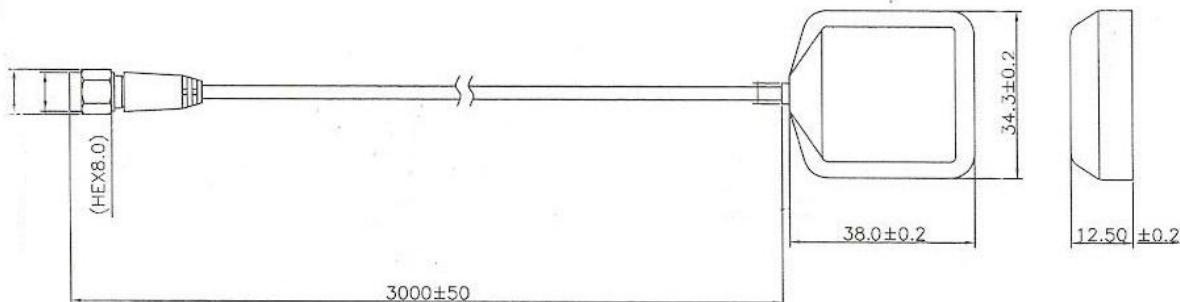
Center frequency	1602.42 MHz ± 2 MHz
Bandwith	16 MHz min.
Polarization	RHCP
Gain Peak	18 dB typ.
Gain Efficiency	68.39 % typ.
VSWR	< 2 : 1
Impedance	50 Ω

GLONASS Specification LNA

Center frequency	1602 MHz ± 2 MHz
Gain	20 dB typ. at 3V
Noise Figure	1.5 dB typ. at 3V
Output VSWR	< 2 : 1
Input voltage	2.5V-5V± 0.5 V
Current Consumption	11-15mA(at 3V)

* All values are defined at 25±15 °C, 65±20% RH,

Drawing



Units: mm

Part Numbering

- AP-AGNSS-SMA Antenna GPS/GLONASS Magnetic, SMA
- AP-AGNSS-B90 Antenna GPS/GLONASS Magnetic, SMB 90°
- AP-AGNSS-FC Antenna GPS/GLONASS Magnetic, FAKRA C

Mechanical Specification

Attachment manner	Magnetic
Available connectors	SMA(m), SMB90°(f), FAKRA C(f)
Cable	RG 174/U, 5 m
Minimal radius for bending	15 mm / 30 mm repetitive
Operating Temperature	- 30 to + 80 °C
Storage temperature	- 30 to + 80 °C
Weight	56 g
Dimension	38,0 mm x 34,3mm x 12,5 mm