

# GPS ANTENNAS

## Antenna GPS Magnetic EA-200

SECTRON company offers combined 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 active patch inside
- Exceptional performance : 32 dB signal gain
- Low power consumption : 8 - 23 mA
- Operating voltage : 2.5 - 5.5 V
- GPS receiver short circuit protect
- Water resistant and weatherproof
- Heavy duty construction and compact footprint
- Firm magnetic attachment
- Available connectors: SMA, MMCX90°, MCX, MMCX, BNC, MCX90°, SMB90°, FAKRA C



GPS

32 dB

5 m

RG  
174/U

MMCX  
optional

MCX  
optional

SMB  
90°  
optional

MCX  
90°  
optional

MMCX  
90°  
optional

SMA  
optional

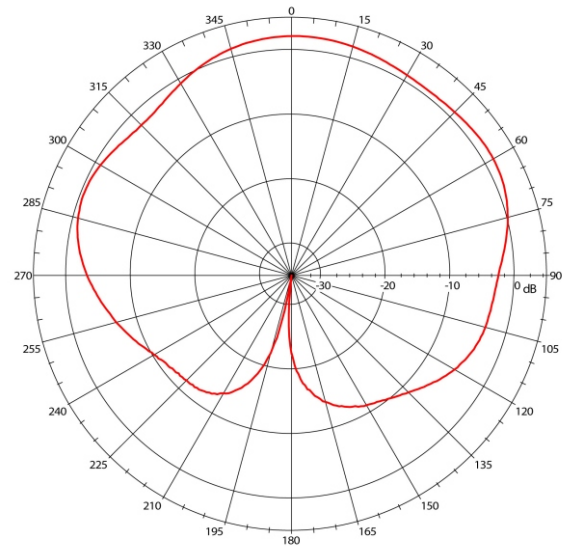
FAKRA  
optional

BNC

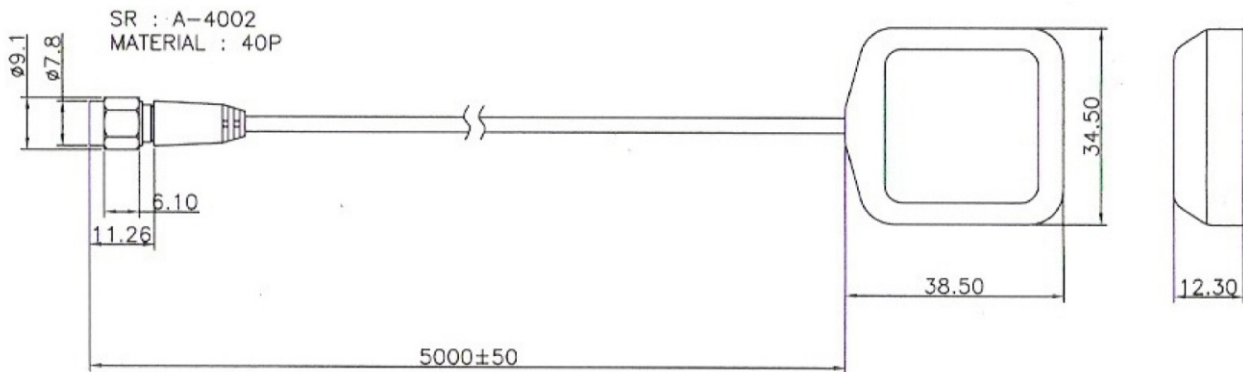
## GPS Specification

Frequency range	1575.42 MHz
Bandwith	10 MHz
Polarization	R.H.C.P.
Gain (without cable)	30 - 37 dB typ. (at 3V / 32 dB)
Gain at Zenith	1 dB typ.
Gain at 10° elevation	- 5 dB typ.
Noise Figure	1.4 dB typ.
Attenuation	20 dB min @ fo ± 50 MHz
VSWR	< 2 : 1
Impedance	50 Ω
Axial Ratio	5.0 dB typ.
LNA Current Consumption	8 to 23 mA DC (at 3V / 10 mA)
LNA Supply Voltage	2.5 - 5.5 V DC

## Radiation Pattern (without LNA)



## Drawing



Units: mm

## Part Numbering

AP-A20S-M5	Antenna GPS Magnetic EA-200, SMA
AP-A20C-M5RA	Antenna GPS Magnetic EA-200, MMCX 90°
AP-A20C-M5	Antenna GPS Magnetic EA-200, MMCX
AP-A20B-M5	Antenna GPS Magnetic EA-200, BNC
AP-A20M-M5RA	Antenna GPS Magnetic EA-200, MCX 90°
AP-A20M-M5	Antenna GPS Magnetic EA-200, MCX
AP-A20BR-M5	Antenna GPS Magnetic EA-200, SMB 90°
AP-A20A-M5	Antenna GPS Magnetic EA-200, FAKRA C

## Mechanical Specification

Attachment manner	Magnetic
Available connectors	SMA(m), MMCX90°(m), MCX(m), MMCX(m), BNC(m), MCX90°(m), SMB90°(f), FAKRA C(f)
Cable	RG 174/U, 5 m
Minimal radius for bending	15 mm / 30 mm repetitive
Operating Temperature	- 40 to + 90 °C
Storage temperature	- 40 to + 90 °C
Weight	75 g
Dimension	25,1 mm x 25,1 mm x 8,8 mm

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