

ANT S.r.l.

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DESCRIPTION

Low profile antenna

for vehicular or stationary applications
GNSS - GPS - GLONASS - GALILEO - BEIDOU
868/915MHz (LoRa, LoRaWAN, Sigfox, ISM),
GSM-GPRS 900/1800MHz, 3G-UMTS 2100MHz
4G-LTE / 5G (Bands 1, 3, 7, 8)



BP-5 (4G-LTE and GPS-GNSS)
BP-5 GPS-GLSS (only GPS-GNSS)

P/N: C06-006

P/N: C06-011

4G-LTE ELECTRICAL DATA

Frequency range: 824-960 / 1710-2690 MHz
VSWR: <2.5:1
Polarisation: Linear
Max power: 10 W
Max gain: -1 dBi

GPS/GNSS ELECTRICAL DATA

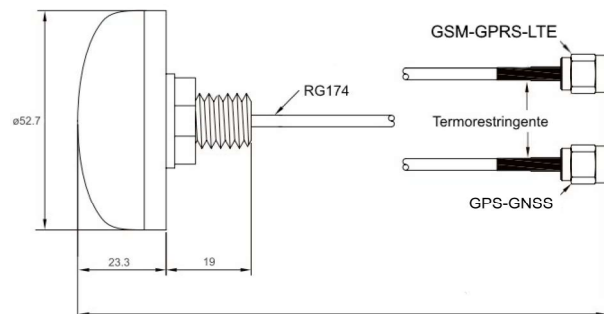
Frequency range: GPS (1575.42 MHz)
GLONASS (1602 MHz)
GALILEO (1575.42 MHz)
Gain (Zenith) 1.5 dBi typical @ 1575.42 MHz
1.8 dBi typical @ 1602 MHz
Polarisation: R.H.C.P
Impedance: 50 Ω


LNA Performances

Max gain: about 30 dB
Max noise factor: about 1.7 dB
V.S.W.R. (out) about 2.0:1
Max V.S.W.R. (out) about 2.5:1
Power: 3V - 11 mA

MECHANICAL DATA

Dimensions (approx): 23x \varnothing 53 mm
Weight (approx): 0.150 kg
GPS-GNSS connection: SMA-M (other on request)
GSM-GPRS/LTE connection: SMA-M (other on request)
GPS-GNSS cable: RG174 3 m (other on request)
GSM-GPRS/LTE cable: RG174 3 m (other on request)
Operating temperature range: -30° / +80C
Radome material: ABS



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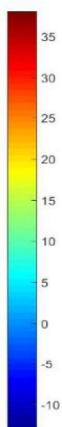
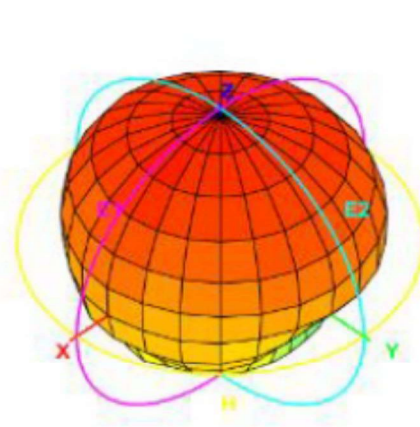
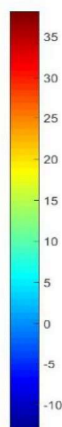
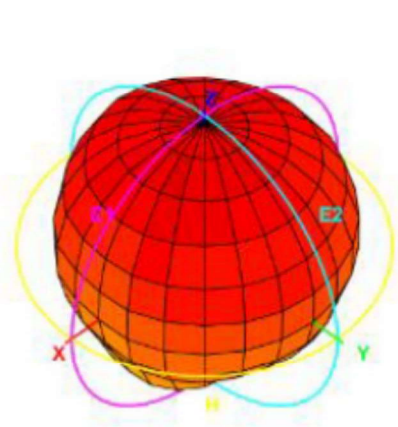
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**GPS /GLONASS RADIATING PATTERN
(3D SIMULATION)**

GPS 1575.42MHz

GLONASS 1602MHz



Protection against oxidation: This antenna is designed to withstand unfavourable climatic conditions and against the oxidation of its components; the plastic components are manufactured from weather-resistant raw materials.

Protection against accidental hits:

This antenna is designed to protect people against accidental impacts against its protruding parts

Direttiva RoHS:

The antenna complies with the RoHS Directive and subsequent updates

IP Grade:

IP67

MOUNTING INSTRUCTIONS

Please fix the antenna on a Ø12.5mm hole using suitable fixing screws.

WARNING:

For a correct installation, please mount the antenna so that it is not covered by metal walls
VSWR and gain performance are directly dependent on the ground plane on which the antenna is installed.