



# GPS/UHF (380–430 MHz)/GSM QUAD BAND BODY MOUNT ANTENNA

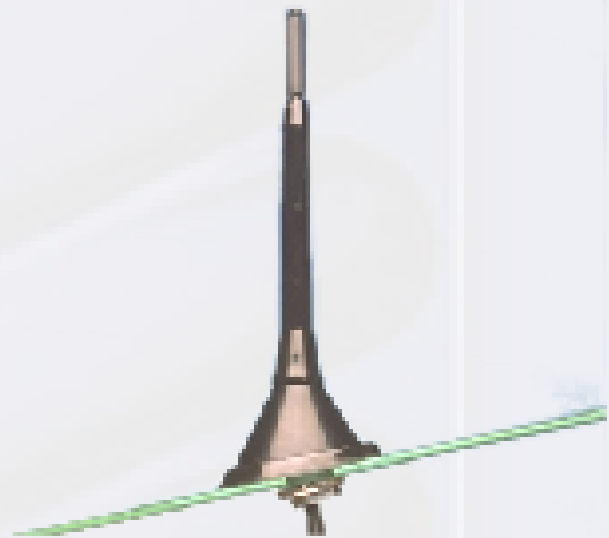
Part Number 589

## Applications

- Automotive GPS
- Telemetry
- Fleet Management

## Main features

- Oem appearance
- Reduced footprint
- IP 67 protection
- RoHS compliant
- 2,5–6,5 V DC feed
- High decoupling between channels



## Main Specifications UHF 380–430 MHz

Gain <math><-1,5\text{ dBi}</math>

VSWR <math><2,5</math>

Impedance 50 OHM

Polarization linear

Bandwidth 25 MHz

Coupling to VHF <math><-20\text{ dB}</math>

Note: the antenna will be tuned in factory at the required frequency band.

Specify part no. 589\_lo for 380–405 MHz band or 589\_hi for 405–430 MHz band



# GPS/UHF (380–430 MHz)/GSM QUAD BAND BODY MOUNT ANTENNA

**Part Number 589**

## Main Specifications GPS

Gain	<28 dBic
VSWR	<2
Noise Figure	<1,5 dB (@5 V DC 21°C)
Polarisation	circular
Voltage supply	3–6 V DC
Current sink	<20 mA (@5 V DC)
coupling to GSM	<-40 dB (at LNA output)
coupling to UHF	<-55 dB (at LNA output)

## Main Specifications GSM

### Band 824–894 MHz

Gain	< 0dBi
VSWR	< 2,5
Max power	20 W
Impedance	50 OHM
Coupling to UHF	<-25 dB

### Band 890–960 MHz

Gain	< 2dBi
VSWR	<2
Max power	20 W
Impedance	50 OHM
Coupling to UHF	<-25 dB



# GPS/UHF (380–430 MHz)/GSM QUAD BAND BODY MOUNT ANTENNA

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## Main Specifications GSM

### Band 1710–1880 MHz

Gain	< 0dBi
VSWR	< 2,2
Max power	20 W
Impedance	50 OHM
Coupling to UHF	<-20 dB

### Band 1850–1990 MHz

Gain	< -1dBi
VSWR	<2,5
Max power	20 W
Impedance	50 OHM
Coupling to UHF	< -20 dB

## Dimensions et Al.

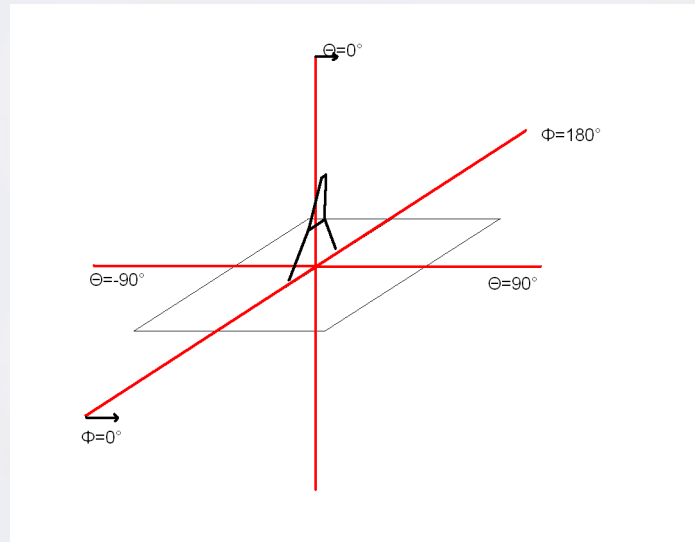
Dimensions	55x40x170 mm )
Cable type	RG174
Cable length	custom
Connector type	custom



# GPS/UHF (380–430 MHz)/GSM QUAD BAND BODY MOUNT ANTENNA

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Axis Reference system



GPS channel pattern

e-plane  $\phi_i=90^\circ$

measured on a 30x30 cm conductive plane

