

Technical Data for combined GPS/GSM Antenna Model : RT-O-GPSGSM-SS1



Electrical Characteristics

Dielectric Antenna

Item	Specifications	Post Environmental Tolerance
Center Frequency	1575.42 MHz	± 3 MHz
Band Width	± 5 MHz	± 1 MHz
V.S.W.R (in BW)	1.5 : 1	-
Gain (Zenith)	3 dB	± 0.5 dB
Polarization	RHCP	-
Impedance	50 Ω	-

GSM Antenna

Item	Specifications	Post Environmental Tolerance
Center Frequency	824 MHz ~ 894 MHz / 1710 MHz ~ 1990 MHz 880 MHz ~ 960 MHz / 1710 MHz ~ 1990 MHz	± 3 MHz
V.S.W.R (5m)	2.0 : 1	-
Gain (Zenith)	2 dB±1 dB @ 900 MHz or 1dB±1 dB @ 1800 MHz	± 0.5 dB
Impedance	50 Ω	-

LNA/Filter

Item	Specifications	Post Environmental Tolerance
LNA Gain	28 ± 3 dB	± 2.5 dB
Noise Figure	1.5 dB	-
Filter Out Band Attenuation	7 dB Min f0 +/- 20 MHz 20 dB Min f0 +/- 50 MHz 30 dB Min f0 +/- 100 MHz	± 1 dB
DC Voltage	3 ~5 V	
DC Current	11 mA	

Mechanical Specifications

Item	Specifications
Cable	RG174 3 m
Connector	SMA male for GPS / SMA male for GSM
Plastic Housing	Black.
Mounting	Adhesive Sticker
Weight	0.024 kg

Environmental Specifications

Item	Specifications
Temperature Range	25 ± 3 °C
Relative Humidity Range	55 ~75 % RH
Operating Temperature Range	-40 °C ~ +85 °C
Storage Temperature Range	-45 °C ~ +100 °C

Dimensions (Unit : mm)

Size 96mm x 36mm x 15 mm

Installation:

The front side of the antenna, with the text “GPS+GSM Antenna” must face the sky.
Indoor use only.