

GPS & GSM Dual Antenna

Combo – 4N



This side must always face the sky.
(Please attach under the front window)

Avoid metallic window film

I. Appearance:

- ▶ Antenna Unit (random connectors and cable – refer to the attached drawing)
- ▶ Dimension : 50.10 x 16.55mm
- ▶ Weight : 180 g
- ▶ Color: Black

II. Operation Environment:

- ▶ Temperature: -40 to +85 °C
- ▶ Humidity: 40% to 95% RH

III. Storage Environment:

- ▶ Temperature : -40 to +85 °C
- ▶ Humidity: 40% to 95% RH

IV. Output Terminal:

- ▶ Connector (GPS or GSM) Options: MMCX , MCX , SMA , BNC , SMB ...
- ▶ Cable: RG-174 2000~5000±100 mm
- ▶ Cable Color: Black

V. Electrical Specification:

- ▶ All value are defined at 25±15 °C ,65±20 % RH unless otherwise noted.
- ▶ Antenna characteristics are measured with 70x70 mm ground plane in an anechoic chamber.

A. GPS ANTENNA

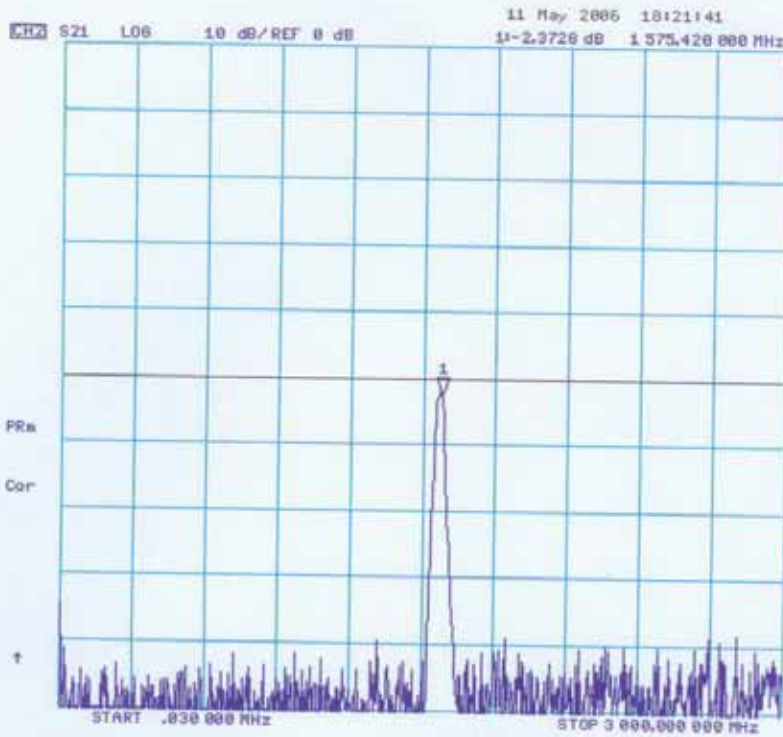
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz
Bandwidth	10 MHz @ -3dB point
Polarization	R.H.C.P
Axial Ratio	2.0 dB max
Over-Current	Thermal Over-current shutdown >+150degreeC
RF noise protection	RF protection(10watt), nano-second Spark-Gap
Coax Cable	RG-174U double shielded 5m, Low Loss 0.7dB/m

B. LNA

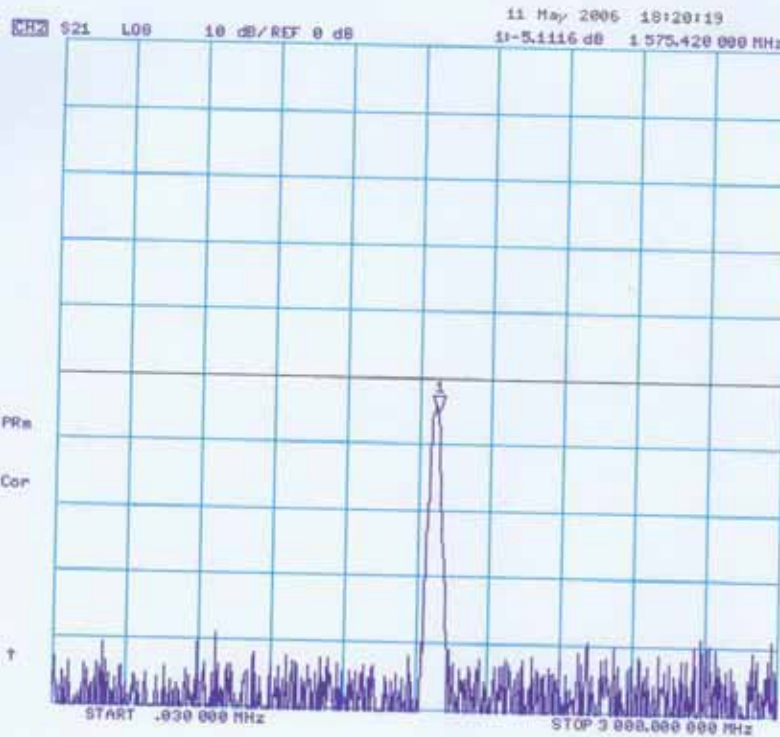
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz
Over-all Gain	28dB (typical including 4dB cable loss & Filters)
Over-all NF	<1.8dB @fo, 2dB max.
Output V.S.W.R	1.5 dB max
LNA Characteristic	K=>1 Un-conditionally Stable
Voltage	3.0~12V
Current	11~13mA±2

C. GSM ANTENNA

Characteristics	Specification
Frequency	GSM: 900~1800 MHZ
VSWR	1.5MAX
IMPEDENCE	50Ω
Polarization	R.H.C.P
Gain	3dBi
Power handling capacity	40W
Cable and connector	3m RG-174 with FME connector
Mounting	Double side tape



3.3-12V
電流 14mA



2.5v
電流 10mA



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