

GPS10N-S3-85

Specification

Product Name | INPAQ RF Active Antenna Series/PN | GPS10N-S3-85



PN: GPS10N-S3-85

1. Application:

This application shall apply for antenna unit which shall be used with an engine for an automobile.(for impedance 50Ω)

2. Appearance:

Antenna Unit (with radome, connector, and cable – refer to an attached drawing)

Dimensions 25.0*25.0*6.76mm ; Radome #N

Weight 11.11 ±1 g (typ); Connector I-PEX MHF

Color gray ; Cable RF Φ1.13 160mm

PCB lead free

3. Operating Condition:

Temperature -40 to +80°C Humidity 10 to 95% RH

4. Storage Condition:

Temperature -40 to +80°C Humidity 20 to 65% RH

5. Electrical Specification:

- * All value are defined at 25±15°C, 65±20 % RH, power handling 1 u watt, air pressure 960 ±100 HPA unless otherwise noted.
- *Patch characteristics are measured with test ground plane in an anechoic chamber.

Patch Specification.

Characteristics	Specification
Center Frequency	1575.42±1.023(when covered with a radome on LNA ground plane.)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	2.0 dBic typ
Polarization	R.H.C.P
Axial Ratio	3.0dB typ(for PDA mechanical & ground 25.0x25.0mm)

Filter/LNA Specification.

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Characteristics	Specification
Gain	27±3dB (DC=3.0V)
Noise Figure	1.5 dB typ (DC=3.0V)
Output V.S.W.R	2.0 max (DC=3.0V)
Current (DC= 3.0±0.01V)	10±3mA

Overall Specification.

Characteristics	Specification
Center Frequency	1575.42±1.023 (when covered with a radome on LNA ground plane.)
Gain at Zenith	29dBic typ(for ground 25.0x25.0mm)
Output Impedance	50ohm
Output VSWR	2.0 typ
Operation Voltage	3.0 ±0.3V

GPS10N-S3-85 Engineer Specification

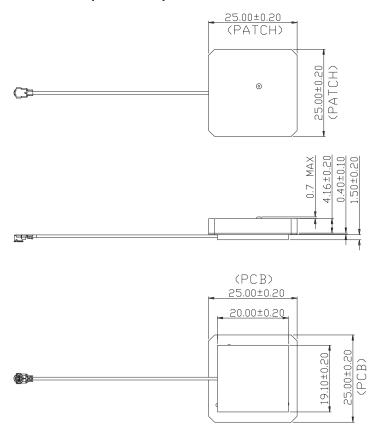
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■ All Specifications are subject to change without notice.

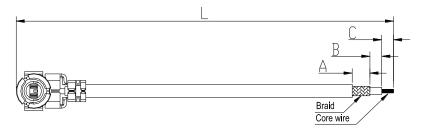
www.inpaq.com.tw; www.inpaqgp.com



6. Antenna Dimensions: (unit: mm)



7. Cable Length:



Connector: I-PEX MHF, Cable: RF Cable φ1.13(Gray)

 $L: 160 \pm 2 mm \qquad A: 1.5 \pm 0.5 mm \qquad B: 1 \pm 0.5 mm \qquad C: 1 \pm 0.5 mm$