MDL MIX GPS/GPRS SMA/SMA RG-174 5M GPS01S-S4-00-A

1. Application:

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

2. Appearance:

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

Dimensions	85*56*19.5mm	Radome	#S_
Weight	128.6g	Connector	GPS/GPRS SMA/SMA
Color	Black	Cable	RG-174 5M
Label	No	Twin Adhesive	Yes

3. Operating Condition:

Temperature: $-40 \text{ to} + 85^{\circ}$ C Humidity: 10 to 95%RH

4. Storage Condition:

Temperature : - 40 to + 85°C

Humidity: 10 to 95%RH

UNLESS OTHER X=N/A ANGLES=N/A	SPECIFIED X.X=N/A	TOLERANCES ON: X.XX = N/A HOLEDIA= N/A	G	INPAQ TECHNOLOGY CO	O., LTD.
SCALE: N/A		UNIT: mm		AND SPECIFICATIONS ARE THE PROPERT	
DRAWN BY: 曾	致瑛	CHECKED BY: 楊奇峰		LITD.AND SHALL NOT BE REPRODUCED (THE MANUFACTURE OR SALE OF APP.	
DESIGNED BY	:陳智崴	APPROVED BY:曾源標	DEVICES WITHOU	IT PERMISSION	
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5. Electrical Specification:

All value are defined at 25±15°C , 60±20%RH , power handing 1 u watt, Pressure 960±100HPA unless otherwise noted.

5.1 GPS Active Antenna Electrical Specification:

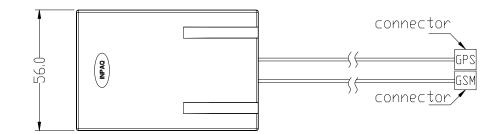
Parameter	Electrical Specifications	
Frequency Range	1575.42MHz ± 2.5MHz	
Patch Antenna Polarization	RHCP	
VSWR(50ohm)	< 2.0	
Elevation Patch Antenna Axial	3 typ.	
Ratio at θ= 0 degree (dBic)	σ typ.	
Elevation maximum patch Antenna	2.0 dBio tura	
Gain or directive (dBic)	3.0 dBic typ.	
Elevation Pattem	Hemispherical	
LNA DC Voltage	3~5V	
LNA DC Current	10 ± 4 mA	
LNA Amplifier Gain(dB)	≧2 <mark>5</mark> dBm	
Noise figure including filter and		
LNA @ambient temperature	2.5 dB Typical	
LNA input near 1575 MHz P1dB	<-23 dBm	
Isolation between the GPS patch		
including first stage filter and the	-45 dB Min.	
GPRS antenna @1710~1990 MHz	-45 UD WIII.	
and @915~824 MHz		
Test Condition	The patch Antenna gain is the gain at the	
	Feed point of the antenna; do not include	
	The cable and the connector.	

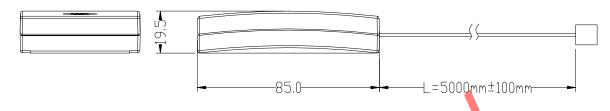
5.2 Cellular/GPRS Antenna Electrical Specifications:

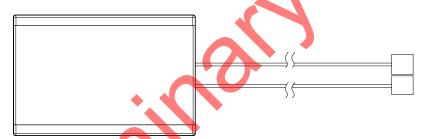
Parameter 1	Electrical Specifications
Frequency Range	824MHz ~ 896 MHz (GSM850)
	880MHz ~ 960 MHz (GSM900)
	1710 ~ 1880 MHz (DCS)
	1850 ~ 1990 MHz (PCS)
Polarization	Linear
VSWR(50ohm)	<u><</u> 3
Peak Gain	>2dBi
Azimuth Pattern	Omni-directional
Power Handling(W)	>10
Testing condition	The antenna gain is defined at the
	Antenna feed point ,not including the
	cable loss

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UNLESS C X=N/A ANGLES:	X.X=N/A	TOLERANCES ON : X.XX = N/A HOLEDIA=N/A	<u>G</u>	INPAQ TECHNOLOGY CO	O., LTD.
SCALE:		UNIT: mm		AND SPECIFICATIONS ARE THE PROPERT	
DRAWN B	BY:曾玟瑛	CHECKED BY: 楊奇峰		LITD.AND SHALL NOT BE REPRODUCED (THE MANUFACTURE OR SALE OF APP	
DESIGNE	D BY:陳智崴	APPROVED BY:曾源標	DEVICES WITHOU	IT PERMISSION	
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6. Antenna Dimension:





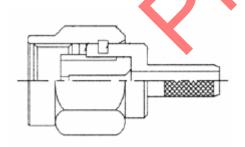


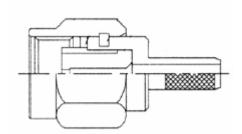
Unit:mm

Connector appearance: SMA/SMA Plug

SMA Plug







UNLESS OTHER SPECIFIED TOLERANCES OF	1:
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X=N/A X.X=N/A X.XX=N/A

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INPAQ TECHNOLOGY CO., LTD.

ANGLES=N/A HOLEDIA=N/A
SCALE: N/A UNIT: mm

DRAWN BY:曾玟瑛 CHECKED BY: 楊奇峰
DESIGNED BY:陳智崴 APPROVED BY:曾源標

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