



普傑國際股份有限公司

PROFESSOR TECHNOLOGY CO., LTD.

PRODUCT SPECIFICATION

產品承認書

Customer: _____

Product Name: **Active GPS & GSM Antenna**

Model No: **CPG0)**

Production Region: **TAIWAN**

Version: **English**

Customer Approval Stamp.

Date: ___/___/___.

Contact Info: Jimmy Chan
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Model No:
CPG07D

Date:
19/Jan/2005

Checked by:

Approved by:

PROFESSOR TECHNOLOGY CO., LTD.

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Specification 規格

1.0 CONFIGURATION

1.1	RF Cable	RG174 , Double Shield, Black.	
		Cable Length	5m ± 5cm
1.2	RF Connector	SMA Male	

2.0 GENERAL

2.1 ENVIRONMENTAL CONDITIONS

2.1.1	Operation Temperature	-30°C to + 80°C
2.1.2	Storage Temperature	-40°C to + 100°C
2.1.3	Relative Humidity	40% to 95%

2.2 MECHANICAL SPECIFICATIONS

2.2.1	Mounting	Magnet mount.
2.2.2	Horizontal Pulling Force of Magnet	1.5 Kg Min.
2.2.3	Water Proof	100 % water proof.
2.2.4	Shock	10msec. Half sine wave.
2.2.5	Magnet Threshold	The antenna must stay attached to the vehicle, at a speed of 180 km/h.
2.2.6	Housing Material	ABS (Black)
2.2.7	Weight	108g
2.2.8	Dimension	See Page. 4

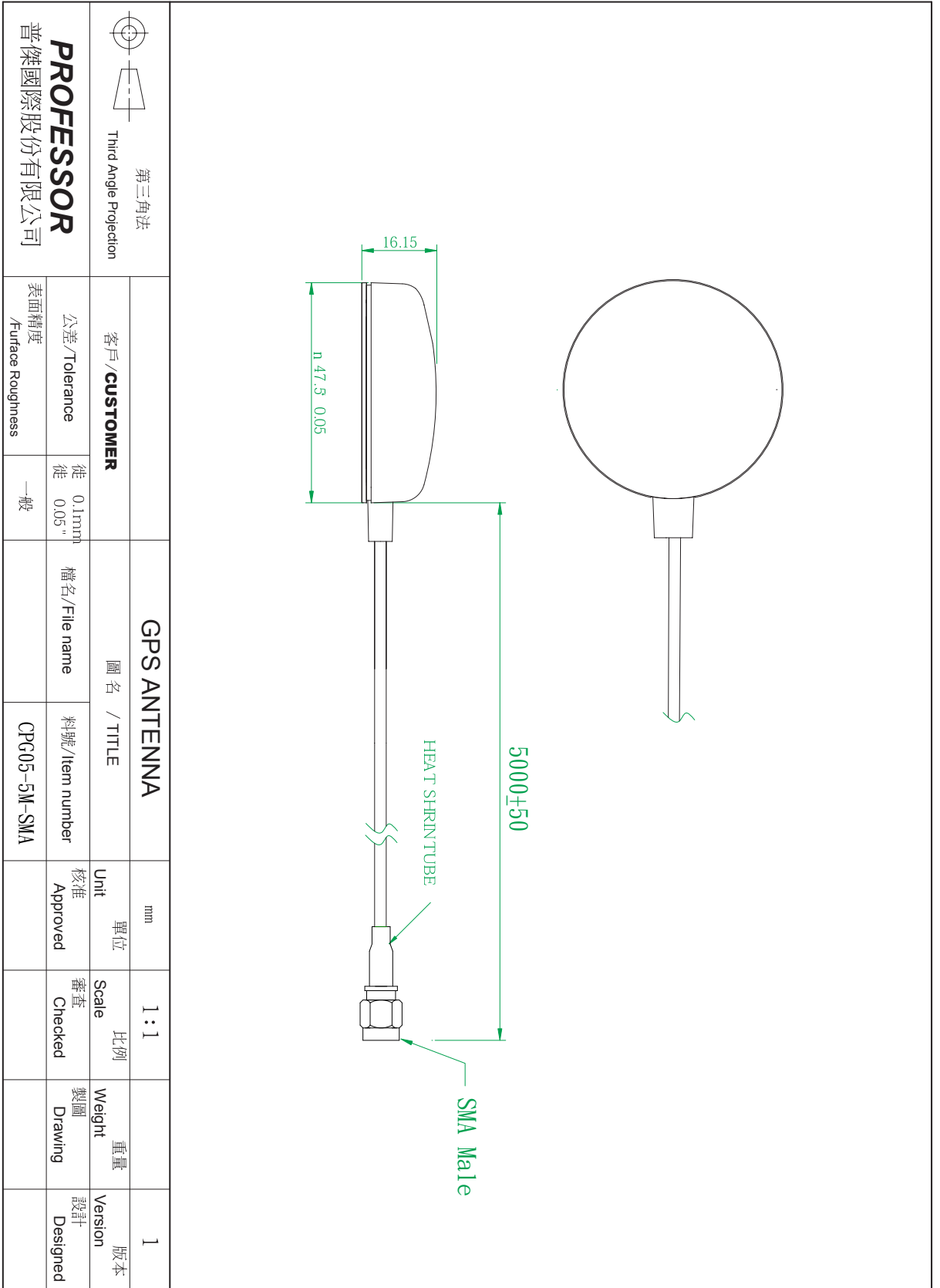
3.0 GPS ANTENNA


3.1	Frequency Range	1575.42 ± 1.023 MHz.	
3.2	Gain	90° : 2.0 dBi Min.	
		20° : -5.0 dBi Min.	
		Mounted on the 60mm*60mm ground plane.	
3.3	Polarization	RHCP	
3.4	Axial Ratio	90° : Max 3.0dB	
		Mounted on the 60mm*60mm ground plane.	
3.5	Input Voltage	3V~5V	
3.6	Power Consumption	At 3.0 V	Typ: 13mA. Max: 16mA.
		At 5.0 V	Typ: 18mA. Max: 22mA.

4.0 LNA

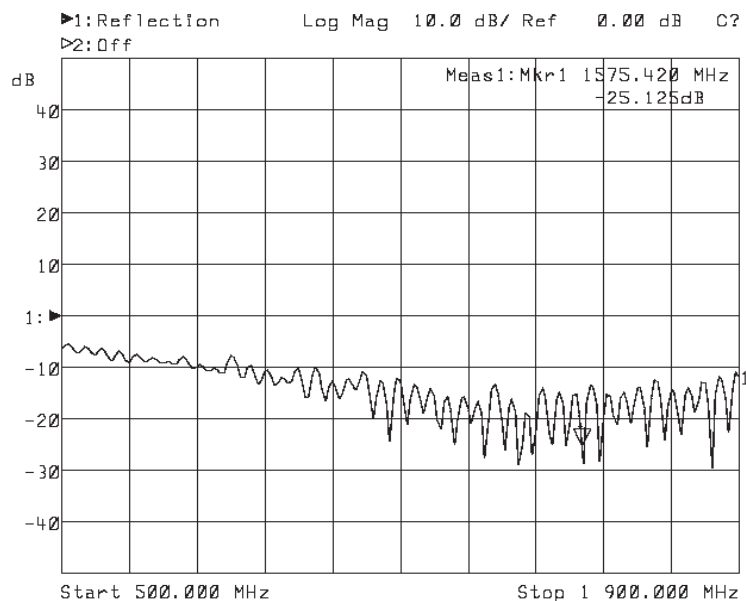
4.1	Frequency Range	1575.42 ± 1.023 MHz
4.2	Gain	28 ± 4.5dB (+ 25 °C ± 5°C)
4.3	Noise Figure	1.5 dB Max. (+25 °C ± 5°C) 2.2 dB Max. (+85 °C)
4.4	Out Band Rejection	fo = 1575.42MHz fo ± 20 MHz 7dB MIN fo ± 30 MHz 12dB MIN fo ± 50 MHz 20dB MIN fo ± 100 MHz 30dB MIN
4.5	Output Impedance	50 Ω
4.6	Output VSWR	2.0 Max

OUTLAY
外觀圖

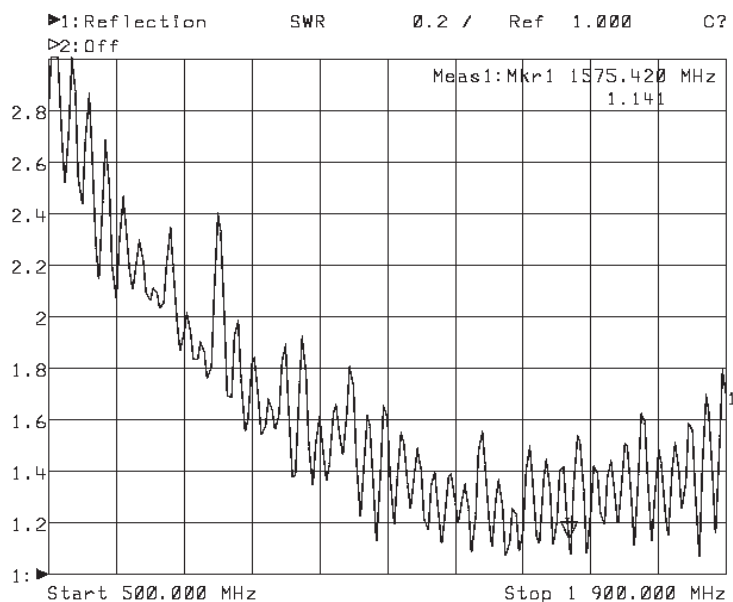


 Third Angle Projection 第三角法		PROFESSOR 普傑國際股份有限公司	
GPS ANTENNA		客戶/CUSTOMER	
圖名 / TITLE	料號/Item number	公差/Tolerance	表面精度 / Surface Roughness
mm	CPG05-5M-SMA	0.1mm 0.05°	一般
單位	Unit	審核	核准
mm	mm	Approved	Approved
比例	Scale	審查	檢查
1 : 1	1 : 1	Checked	Checked
重量	Weight	製圖	設計
		Drawing	Designed
版本	Version		
1	1		

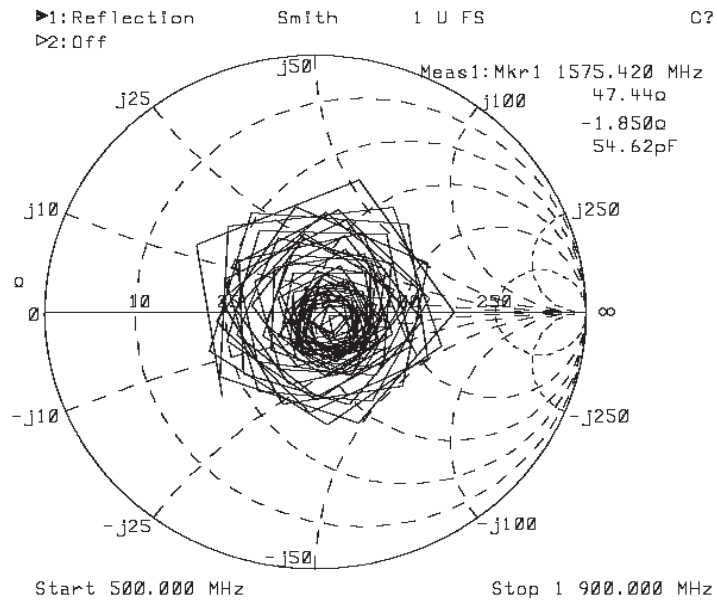
Antenna Pattern 測試圖



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 1575.4200	-25.125		



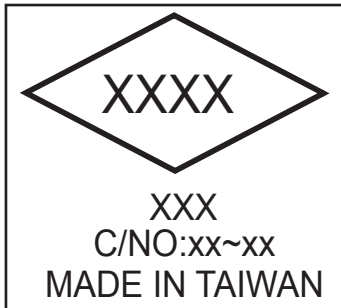
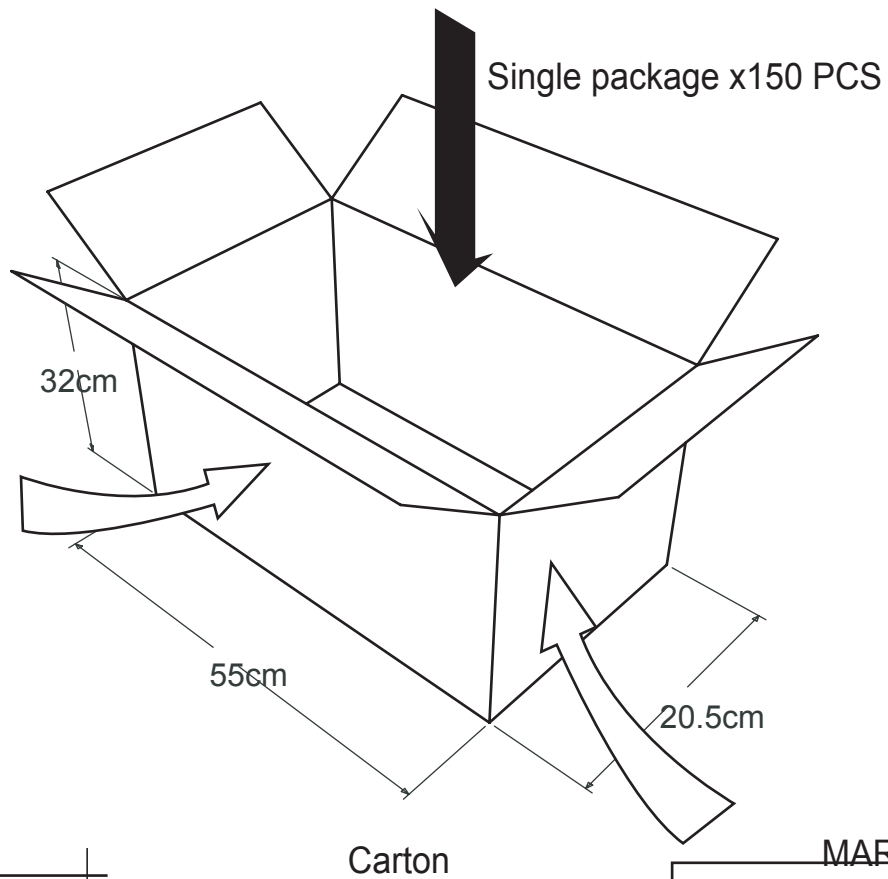
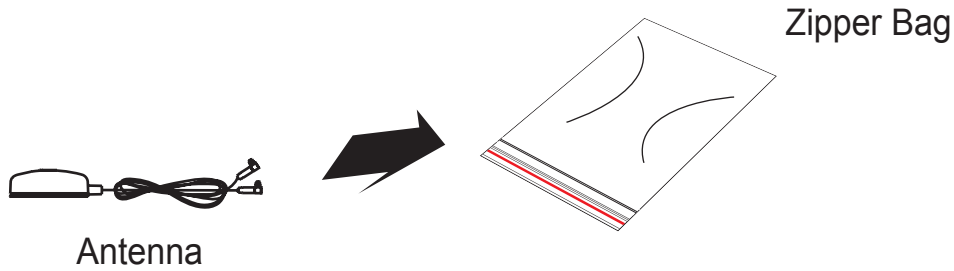
1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 1575.4200	1.141		



1: Mkr (MHz)	Ohm	Ohm	2: Mkr (MHz)	dB
1> 1575.420	47.44	-1.850		

Carton Packaging Construction

外箱包裝



MARK

Item	:CPG07D
Q'ty	:150PCS
N.W.	:16.6Kg
G.W.	:17.3Kg
Meas.	:55cmx20.5cmx32cm

Quantity Master Carton	150PCS
N.W. Master Carton	16.6Kg
G.W. Master Carton	17.3Kg