



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 Antenna

Model No: CPG04

Production Region: TAIWAN

Version: English

Customer Approval Stamp.

Date: ___ / ___ / ___.

Contact Info: Jimmy Chan
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Model No:

CPG04

Date:

19/Jan/2005

Checked by:

Approved by:

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Specification 規格

1.0 CONFIGURATION

1.1	RF Cable	RG174 , $\varnothing 2.5 \pm 0.05\text{mm}$ Double Shield, Black.	
		Cable Length	3m \pm 5cm
1.2	RF Connector	MCX 90°(Male)	

2.0 GENERAL

2.1 ENVIRONMENTAL CONDITIONS

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

2.2 ELECTRICAL SPECIFICATIONS

2.2.1	Input Voltage	3V~5V	
2.2.2	Power Consumption	At 3.0 V	Typ: 13mA. Max: 16mA.
		At 5.0 V	Typ: 18mA. Max: 22mA.

2.3 MECHANICAL SPECIFICATIONS

2.3.1	Mounting	Roof Mount
2.3.2	Horizontal Pulling Force of Magnet	1.5 Kg Min.
2.3.3	Water Proof	100 % water proof.
2.3.4	Shock	10msec. Half sine wave.
2.3.5	Magnet Threshold	The antenna must stay atatched to the vehicle, at a speed of 180 km/h.
2.3.6	Housing Material	ABS (Black)
2.3.7	Weight	88g
2.3.8	Dimension	See Page. 4

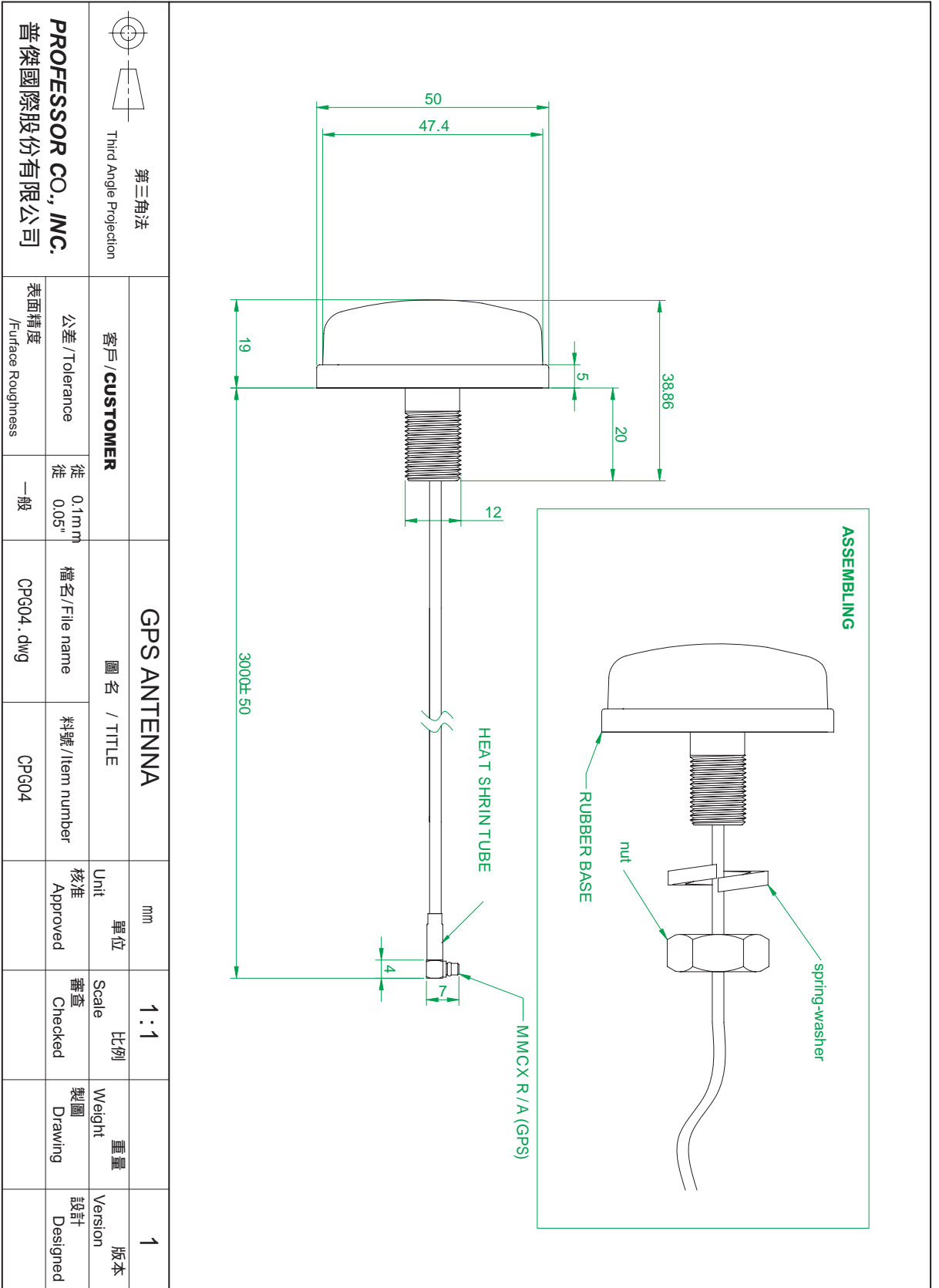
3.0 ANTENNA

3.1	Frequency Range	1575.42 \pm 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.

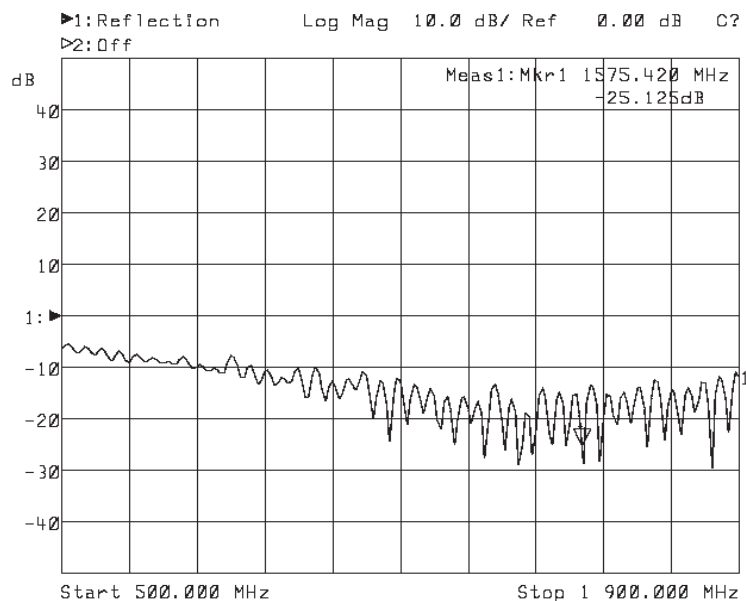
4.0 LNA

4.1	Frequency Range	1575.42 ± 1.023 MHz
4.2	Gain	28 ± 4.5dB (+25 ± 5)
4.3	Noise Figure	1.5 dB Max. (+25 ± 5) 2.2 dB Max. (+85)
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
4.6	Output VSWR	2.0 Max

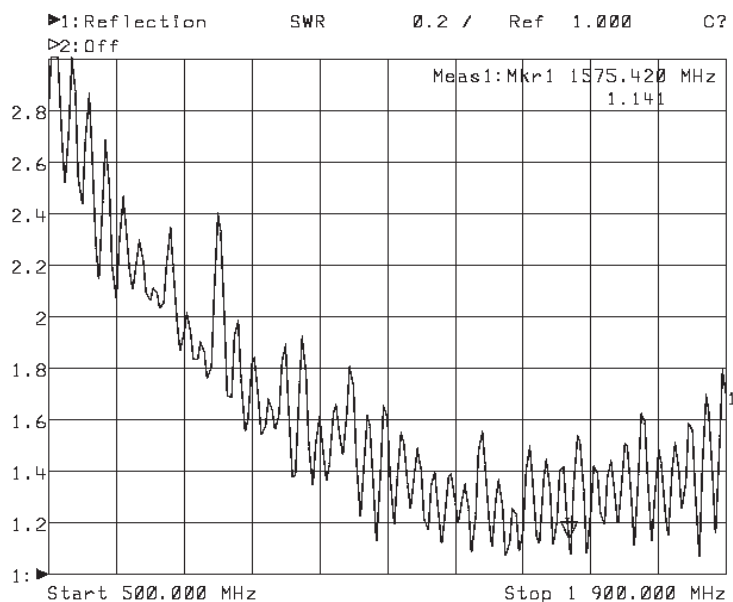
OUTLAY
外觀圖



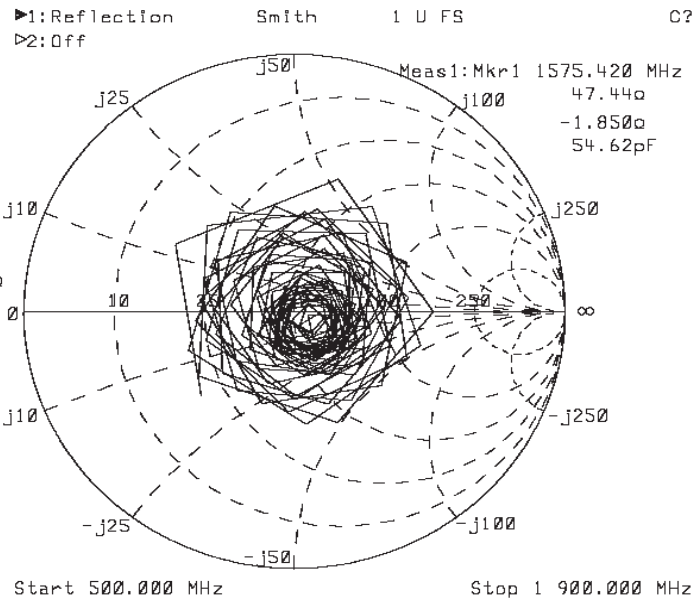
Antenna Pattern 測試圖



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

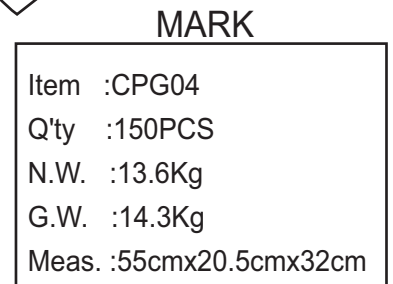
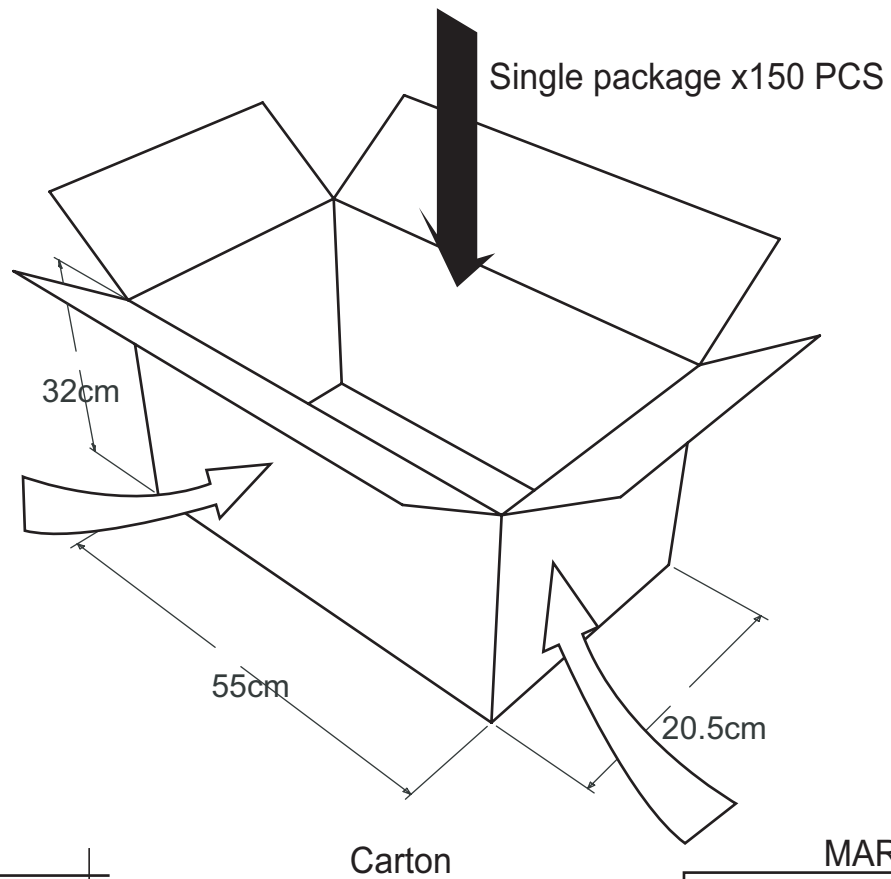
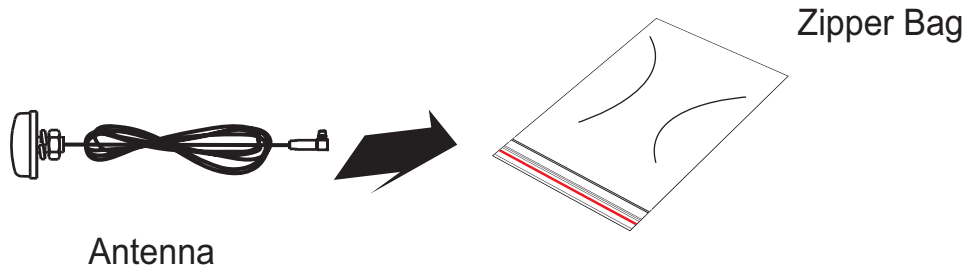


1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 1575.4200	1.141		



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

Carton Packaging Construction 外箱包裝



Quantity Master Carton	150PCS
N.W. Master Carton	13.6Kg
G.W. Master Carton	14.3Kg