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: ***CPG08D***

Production Region: ***TAIWAN***

Version: ***English***

Customer Approval Stamp.

Date:__/__/____.

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Model No:		Date:
CPG08D		19/Jan/2005
Checked by:		Approved by:

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5F, No.25-1, JiLin Rd., Chung-Li Industrial Park, Taoyuan 320, Taiwan.
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Specification
規格

1.0 CONFIGURATION

1.1	RF Cable	RG174 , ∅ 2.5 ± 0.05mm Double Shield, Black.	
		Cable Length	3m ± 5cm
1.2	RF Connector	MCX 90°(Male) both GPS & GSM	

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 MECHANICAL SPECIFICATIONS

2.2.1	Mounting	Roof 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 atlached to the vehicle, at a speed of 180 km/h.
2.2.6	Housing Material	ABS (Black)
2.2.7	Weight	126g
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	50Ω
4.6	Output VSWR	2.0 Max

5.0 GSM ANTENNA

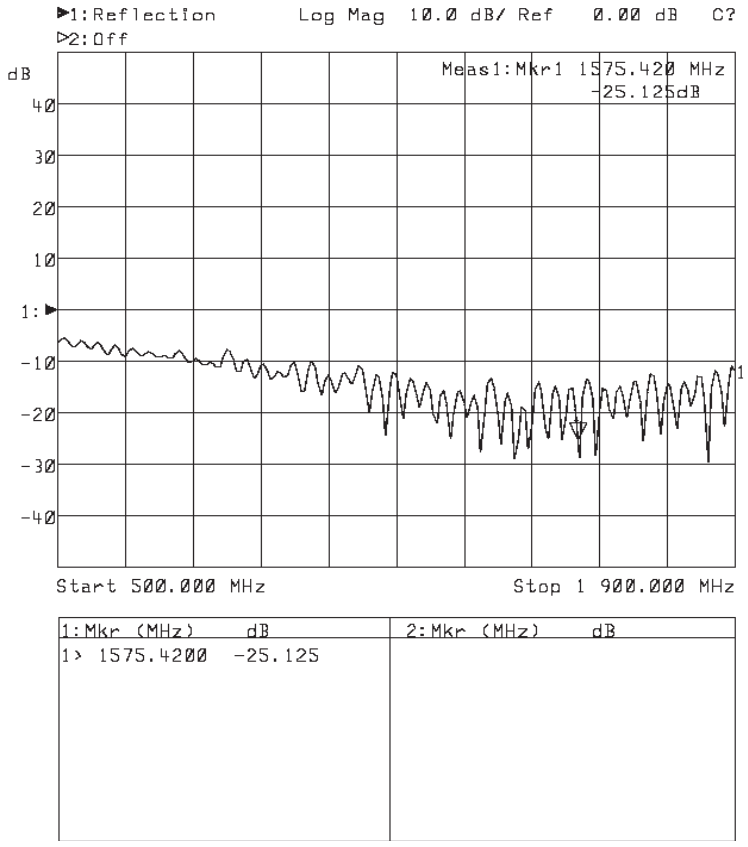
5.1	Frequency Range	824~896MHz & 1860~1960 MHz
5.2	Gain	3 dBi
5.3	Impedance	50Ω
5.4	VSWR	1.5:1
2.2.1	Power handing capacity	10W

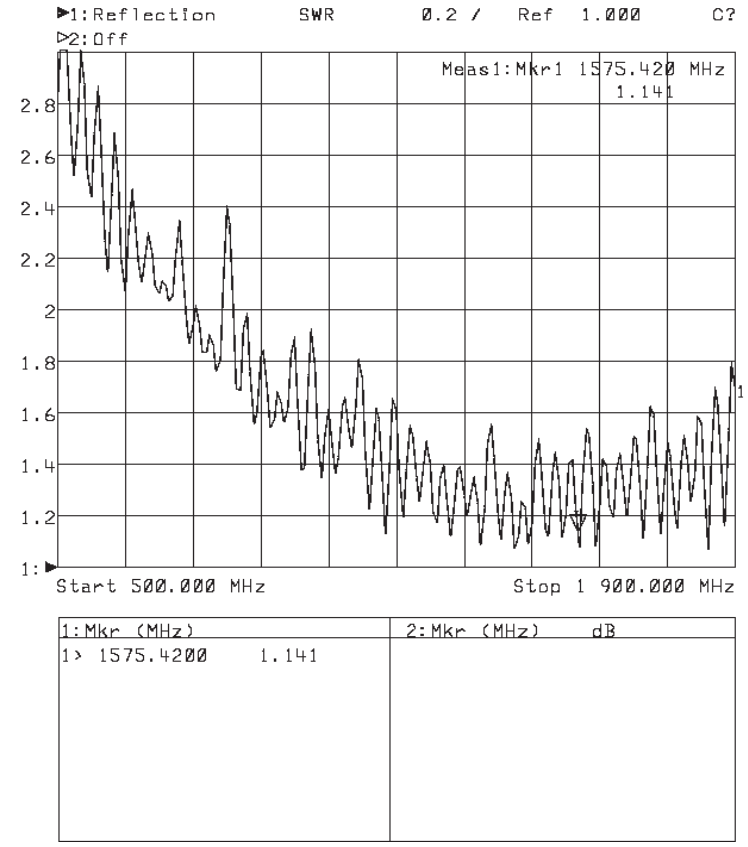
OUTLAY
外觀圖

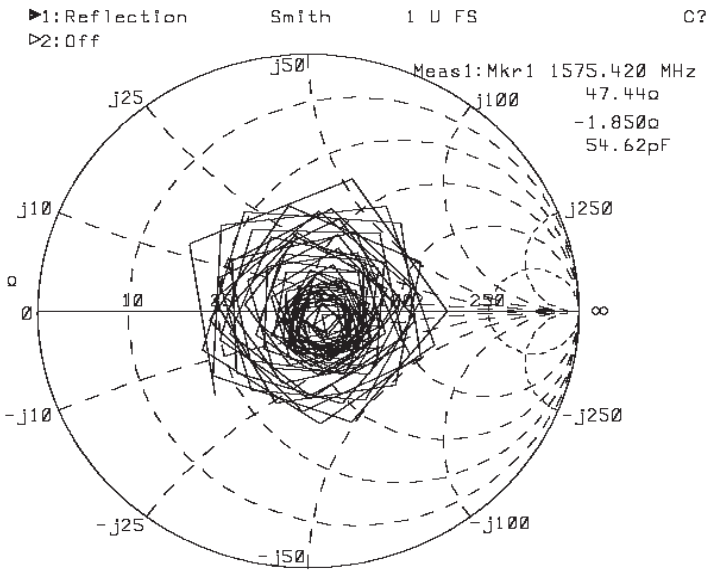
第三角法 Third Angle Projection		GPS+GSM ANTENNA	mm 單位 Unit	1:1 比例 Scale		1 版本 Version
客戶/CUSTOMER		圖名 / TITLE	核准 Approved	審查 Checked	重量 Weight	設計 Designed
公差/Tolerance	表面精度 /Furface Roughness	檔名/File name	料號/Item number		製圖 Drawing	
0.1mm 0.05"	一般	CPG08D.dwg	CPG08D			

PROFESSOR CO., INC.
普傑國際股份有限公司

Antenna Pattern
測試圖

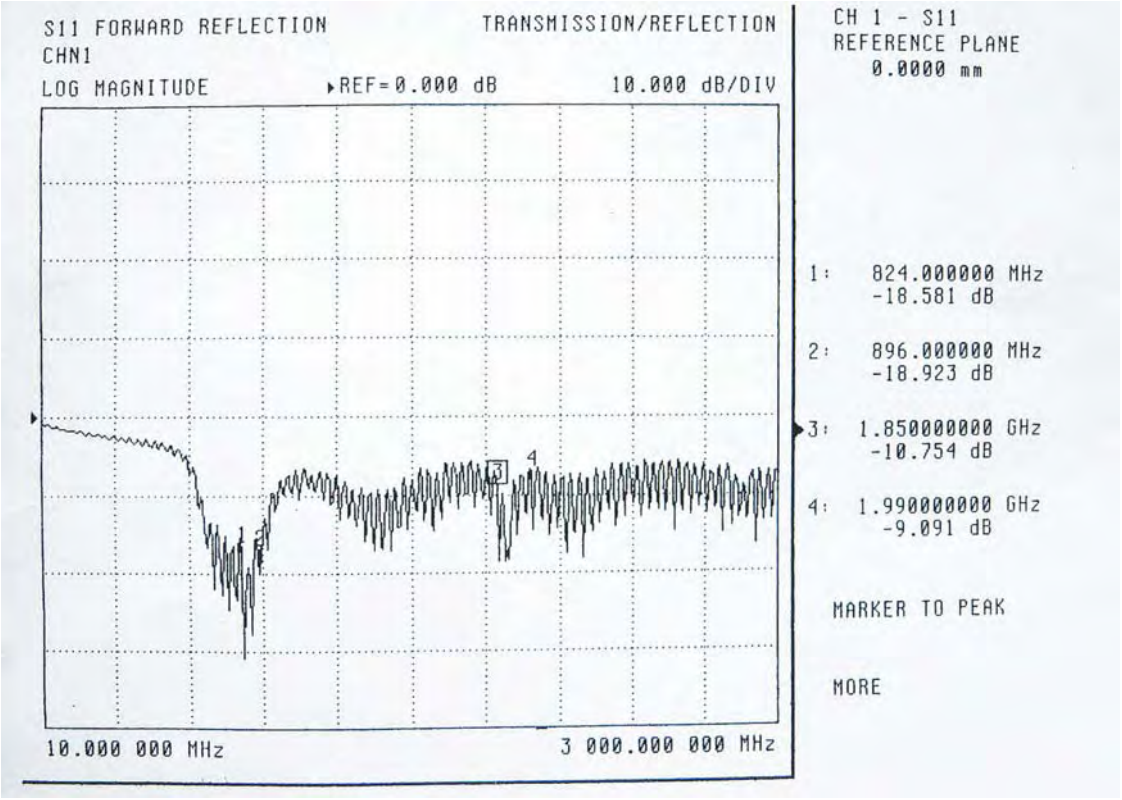






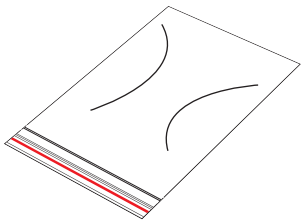
1:Mkr (MHz)	Ohm	Ohm	2:Mkr (MHz)	dB
1> 1575.420	47.44	-1.850		

GSM Antenna

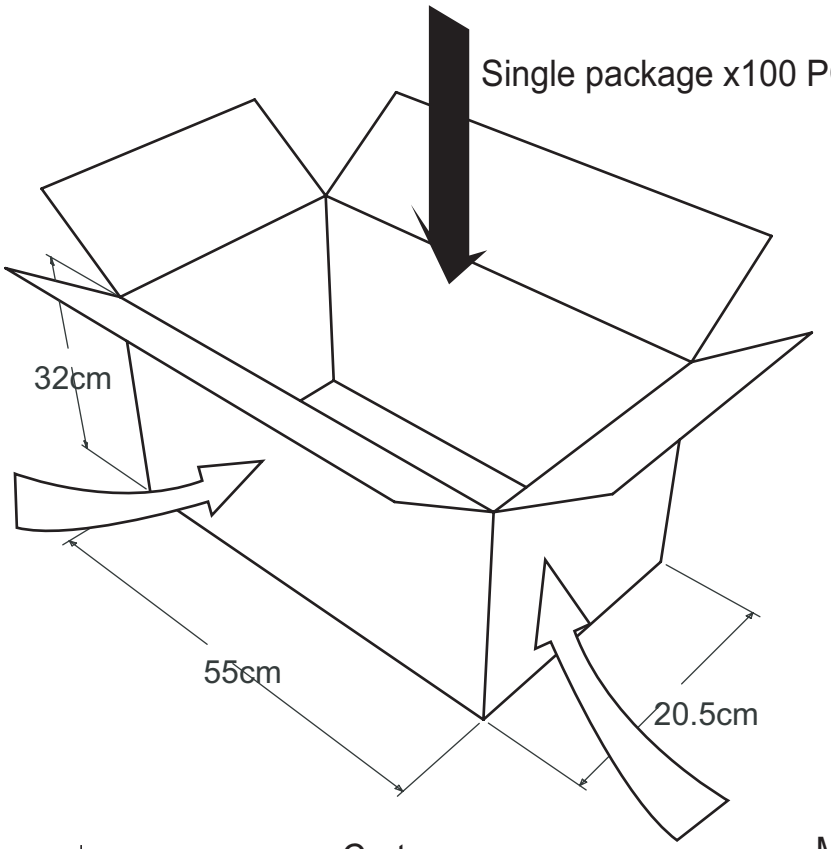


Carton Packaging Construction
外箱包裝

Antenna



Zipper Bag



Carton

MARK

XXXX

XXX
C/NO:xx~xx
MADE IN TAIWAN

Quantity Master Carton	100PCS
N.W. Master Carton	12.9Kg
G.W. Master Carton	13.6Kg

MARK

Item :CPG08D
Q'ty :100PCS
N.W. :12.9Kg
G.W. :13.6Kg
Meas. :55cmx20.5cmx32cm