

APPROVAL SHEET

For：倫飛電腦股份有限公司
Twinhead International Computer, Inc.

MODEL：R15GN

wgt P/N：TWR15WIPI01A

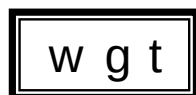
DATE：11 JUL.,2003

Manager	Chief	Engineer

DESCRIPTION：R15GN Wireless PIFA Antenna

CUSTOMER P/N：

Check	Responser



精乘科技股份有限公司

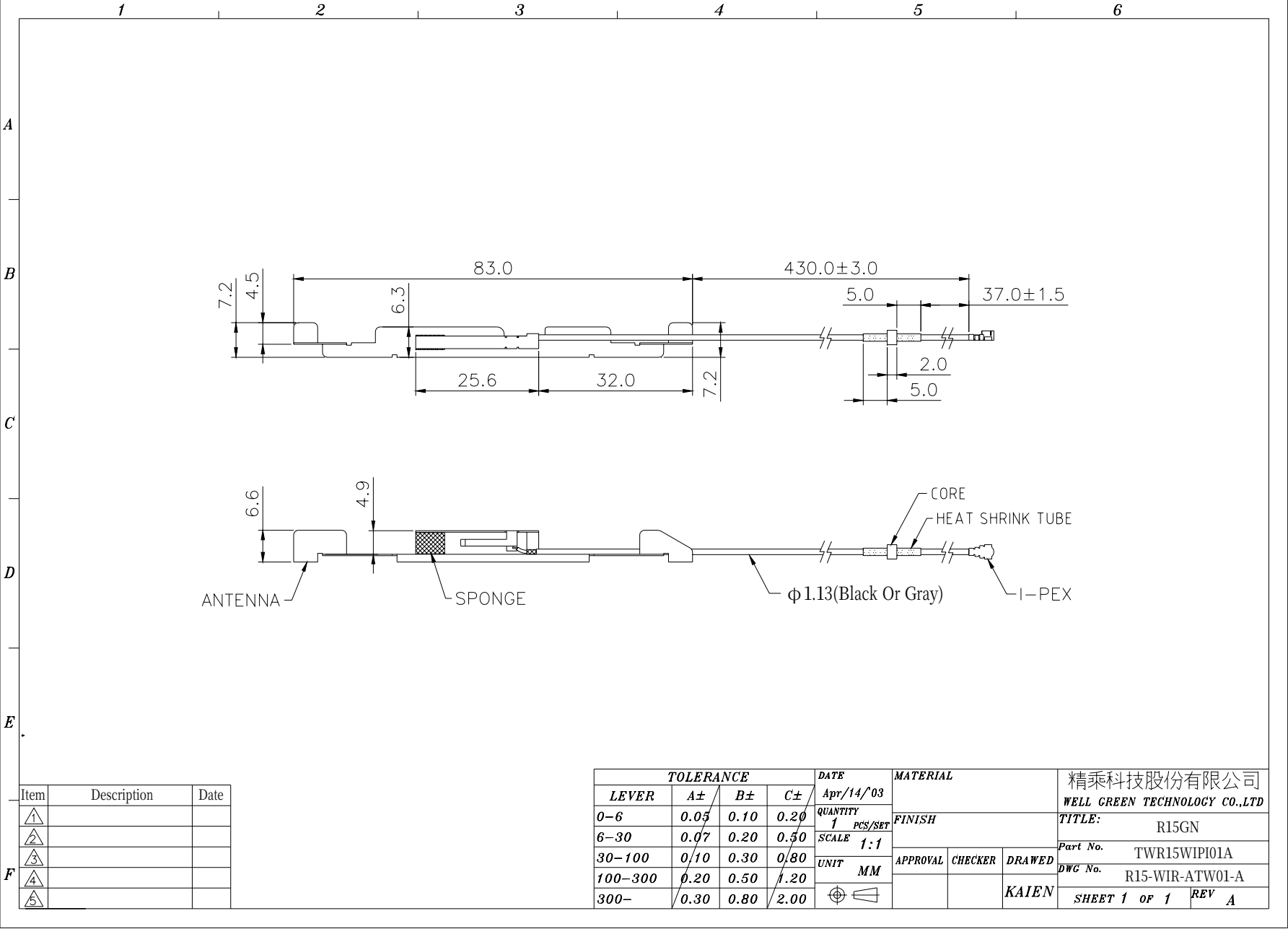
Well Green Technology Co., Ltd.

桃園縣平鎮市民族路雙連二段 118 巷 51 弄 20 號

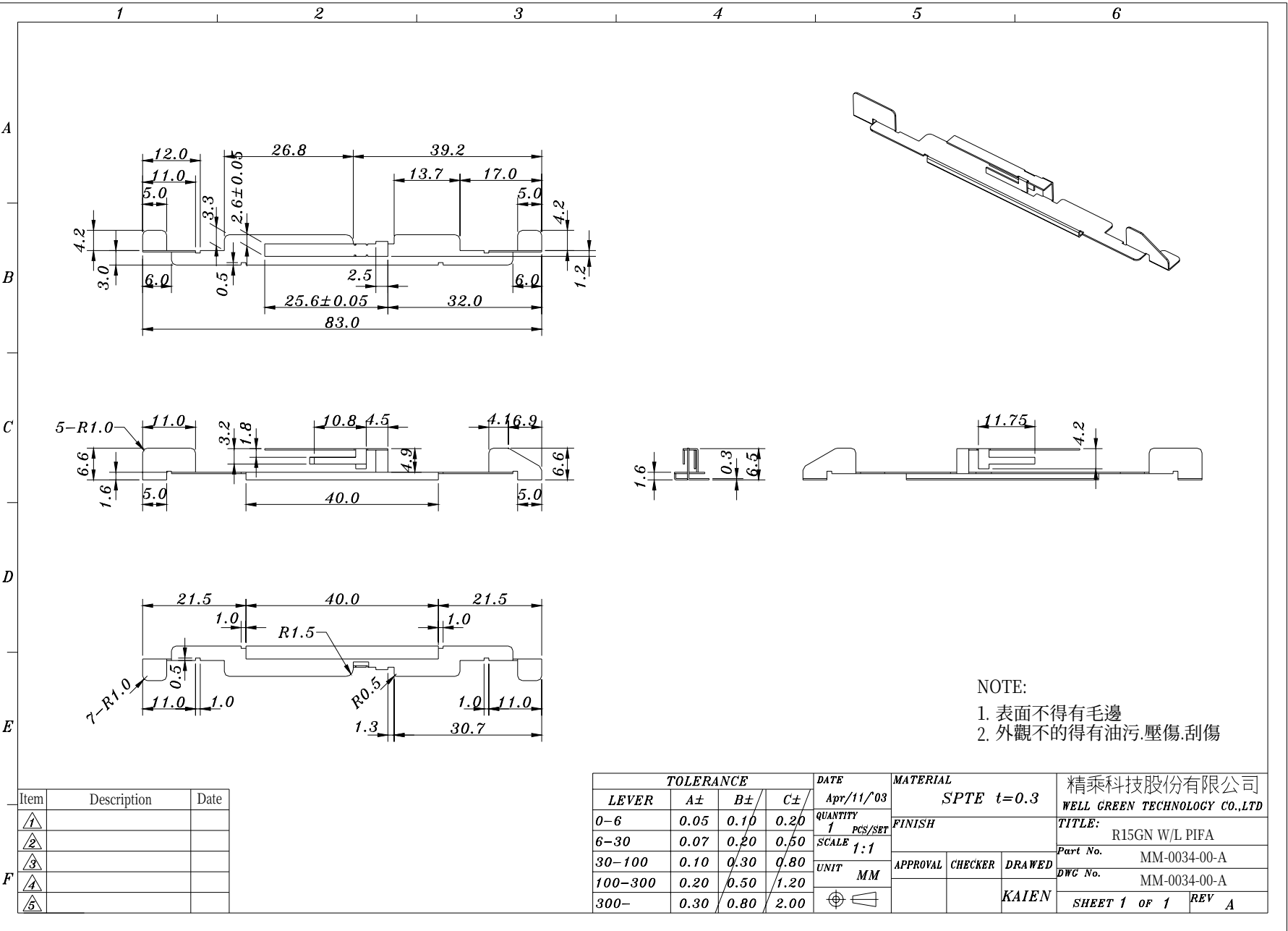
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C

TEL: +886-3-420-6428 ; FAX: +886-3-420-6418

一、成品圖

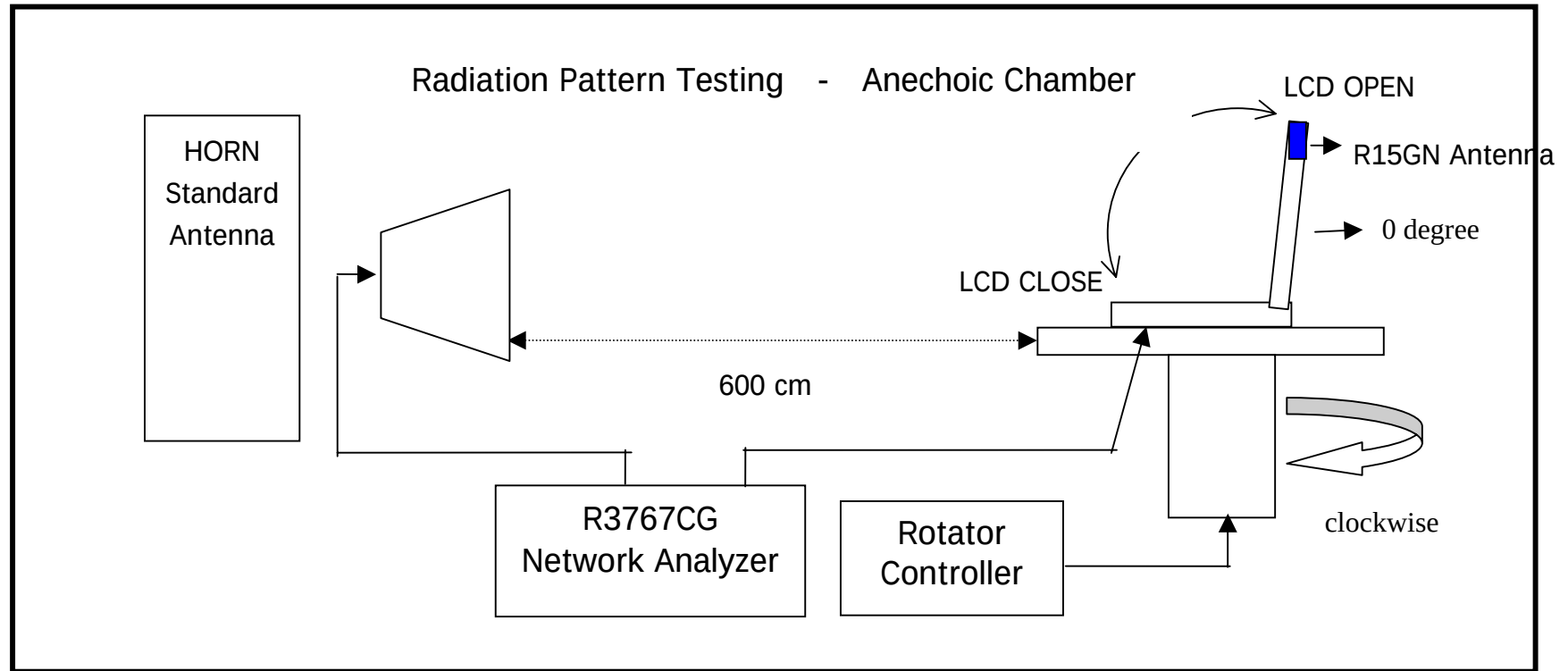


二、零件圖

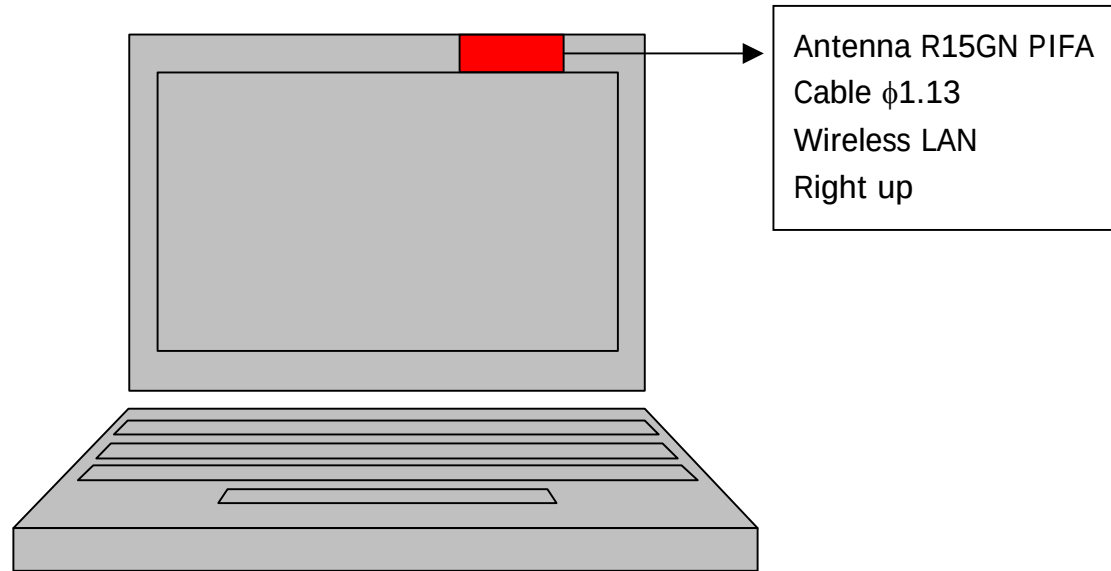


三、802.11b and WIRELESS Antenna Testing Conditions :

1. Testing set up:



2. Mechanical dimensions



四、Free Space 電氣特性 (Antenna Electricity Characteristics) :

1. Return Loss



Antenna	Center freq. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
R15GN	2450	333	-16.80	-22.59	-14.85

精乘科技股份有限公司 Well GreenTechnology CO. , Ltd	P/N : TWR15WIPI01A	Frequency Band : 2.4~2.5GHz	Date : 04 APR.,2003
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2. VSWR



Antenna	Center freq. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
R15GN	2450	333	1.32	1.15	1.43

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Well GreenTechnology
CO., Ltd

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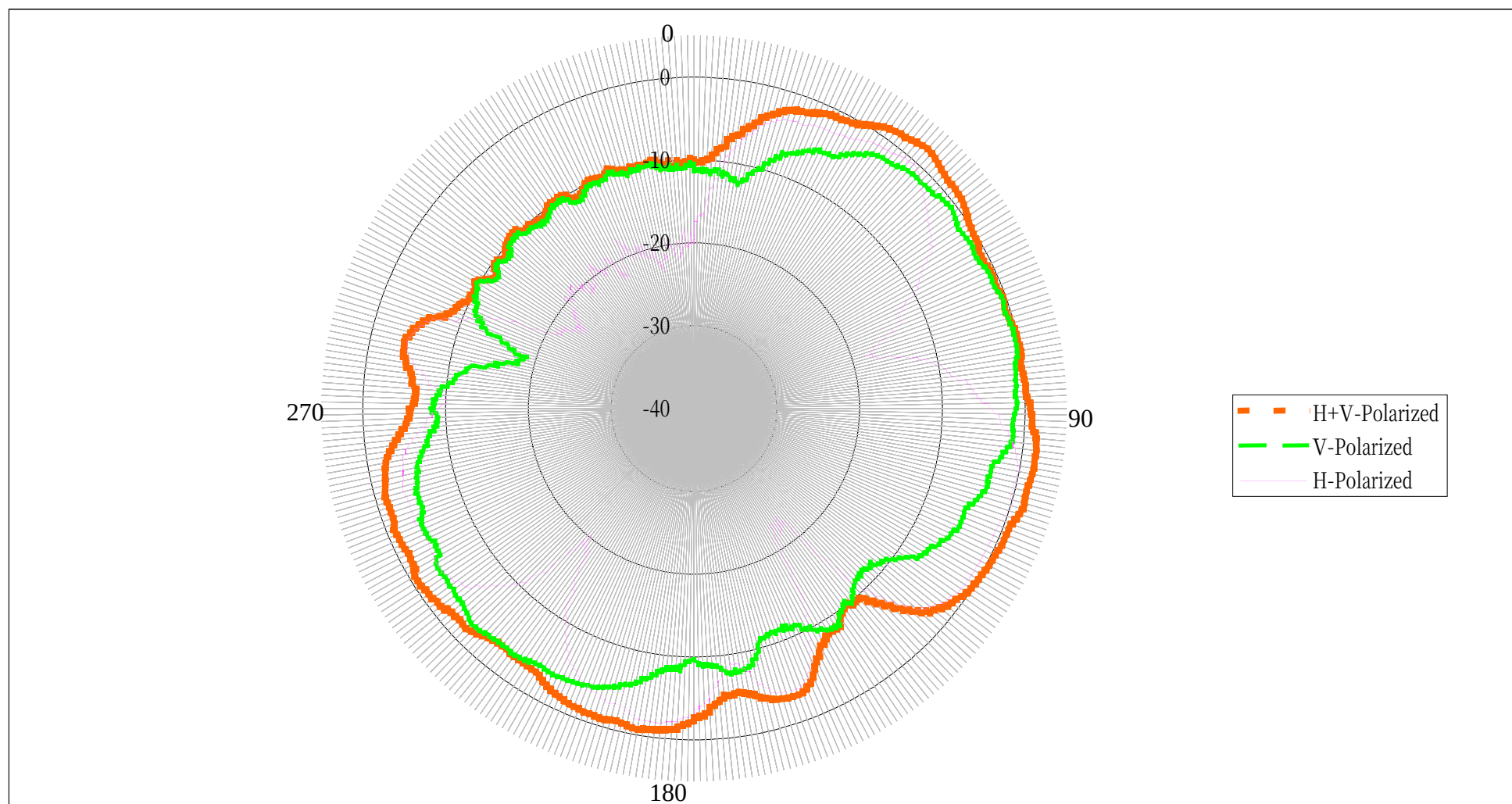
Frequency Band : 2.4~2.5GHz

Date : 04 APR.,2003

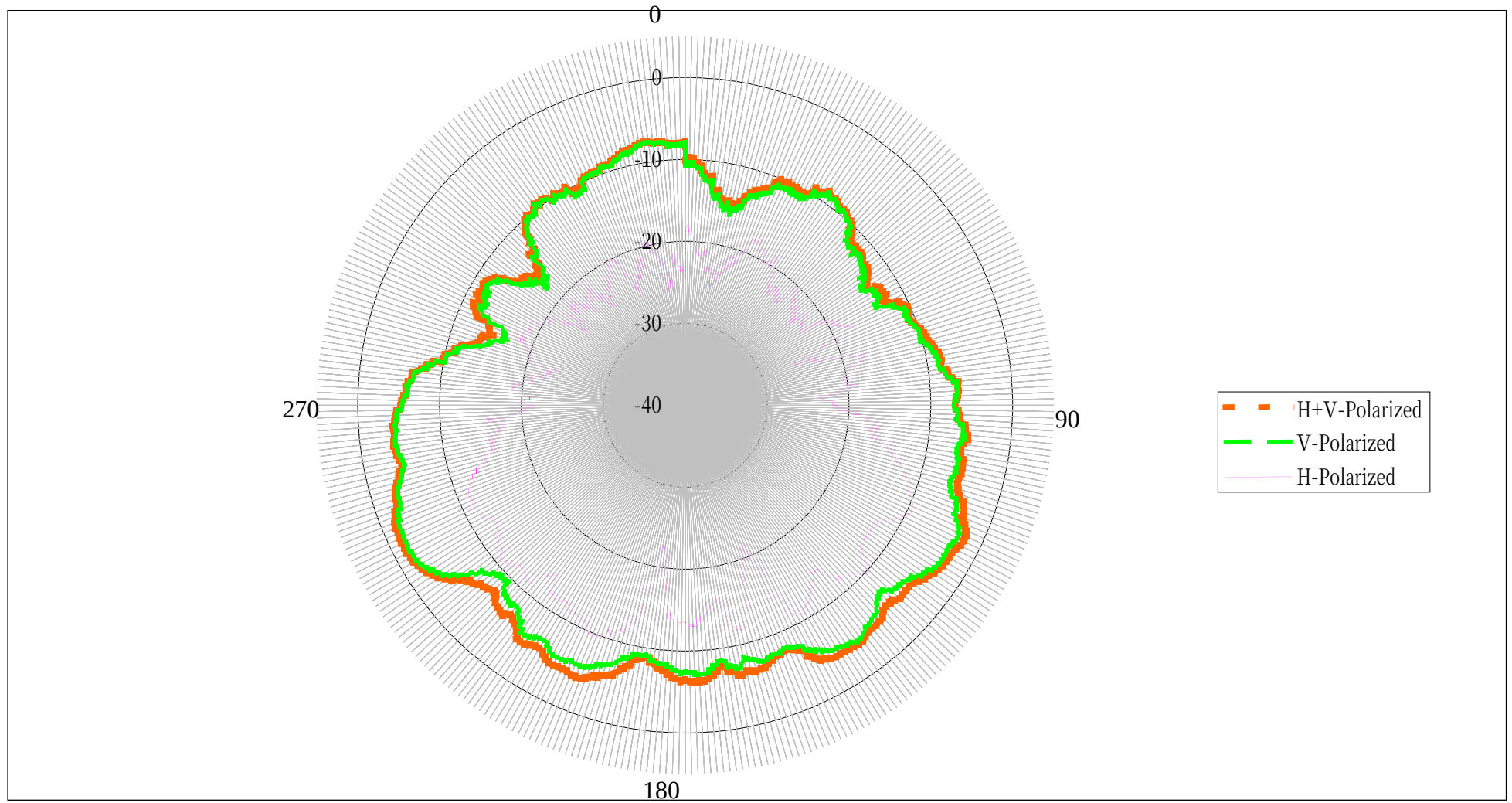
1: 2.400 00000 Hz 0.000 0.000 6.285 415.841 DH 2: 2.450 00000 Hz 0.000 0.000 4.720 306.640 DH 3: 2.500 00000 Hz 0.000 0.000 3.927 16.210 DH 4: 2.550 00000 Hz 0.000 0.000 3.479 7.326 DH 5: 2.603 333 GHz 90.673 Ω 15.117 Ω 15.176 Ω 927.964 DH START 1.5GHz [8.00 dBm] STOP 3.5GHz	精乘科技股份有限公司 Well GreenTechnology CO., Ltd	P/N : TWR15WIP101A Frequency Band : 2.4~2.5GHz Date : 04 APR.,2003
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五、Free Space 天線輻射場形：

1. Radiation Pattern of XY Plane(Azimuth)-2.45GHz(open)



2. Radiation Pattern of XY Plane(Azimuth)-2.45GHz(close)



3. Peak Gain and Average Gain

Antenna	Gain of XY Plane(Azimuth)-open		
	Polarization		2.45GHz
R15GN	V	Peak	-0.25
		Average	-5.20
	H	Peak	0.11
		Average	-5.25
	H+V	Peak	2.17
		Average	-2.21

Antenna	Gain of XY Plane(Azimuth)-close		
	Polarization		2.45GHz
R15GN	V	Peak	-1.88
		Average	-7.23
	H	Peak	-9.27
		Average	-15.13
	H+V	Peak	-1.44
		Average	-6.58

六、SPECIFICATIONS:

● Electrical Properties

Frequency Range	: 2.4~2.5GHz
Impedance	: 50Ohms nominal
VSWR	: ≤ 2.0
Peak Gain	: -5.0dBi $\leq$ peak gain $\leq$ 3dBi
Standard Connector	: I-PEX Connector