

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

DESCRIPTION : R15GN Wireless PIFA Antenna

CUSTOMER P/N :

Manager	Chief	Engineer

Check	Responser



精乘科技股份有限公司

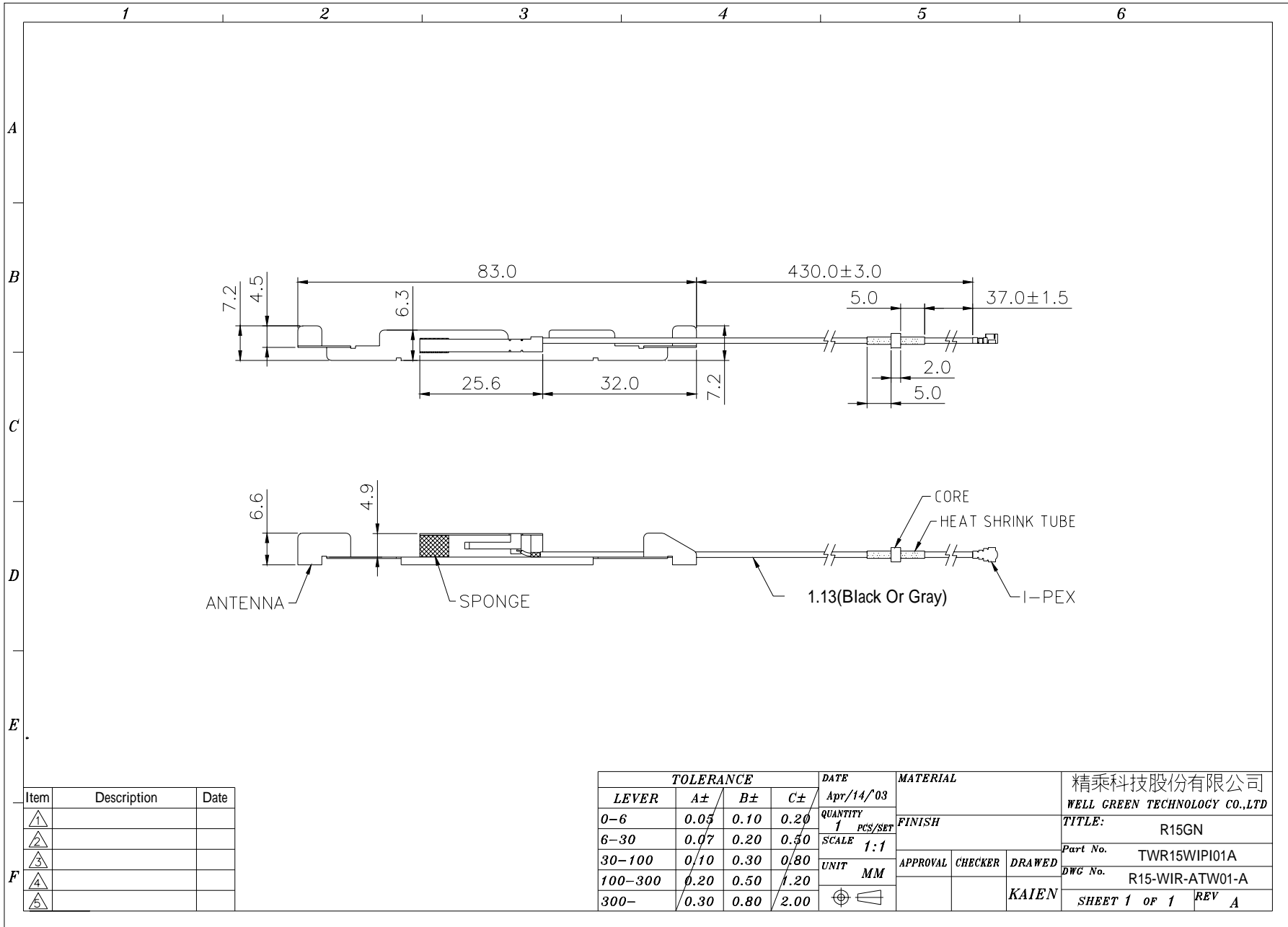
Well Green Technology Co., Ltd.

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

一、成品圖



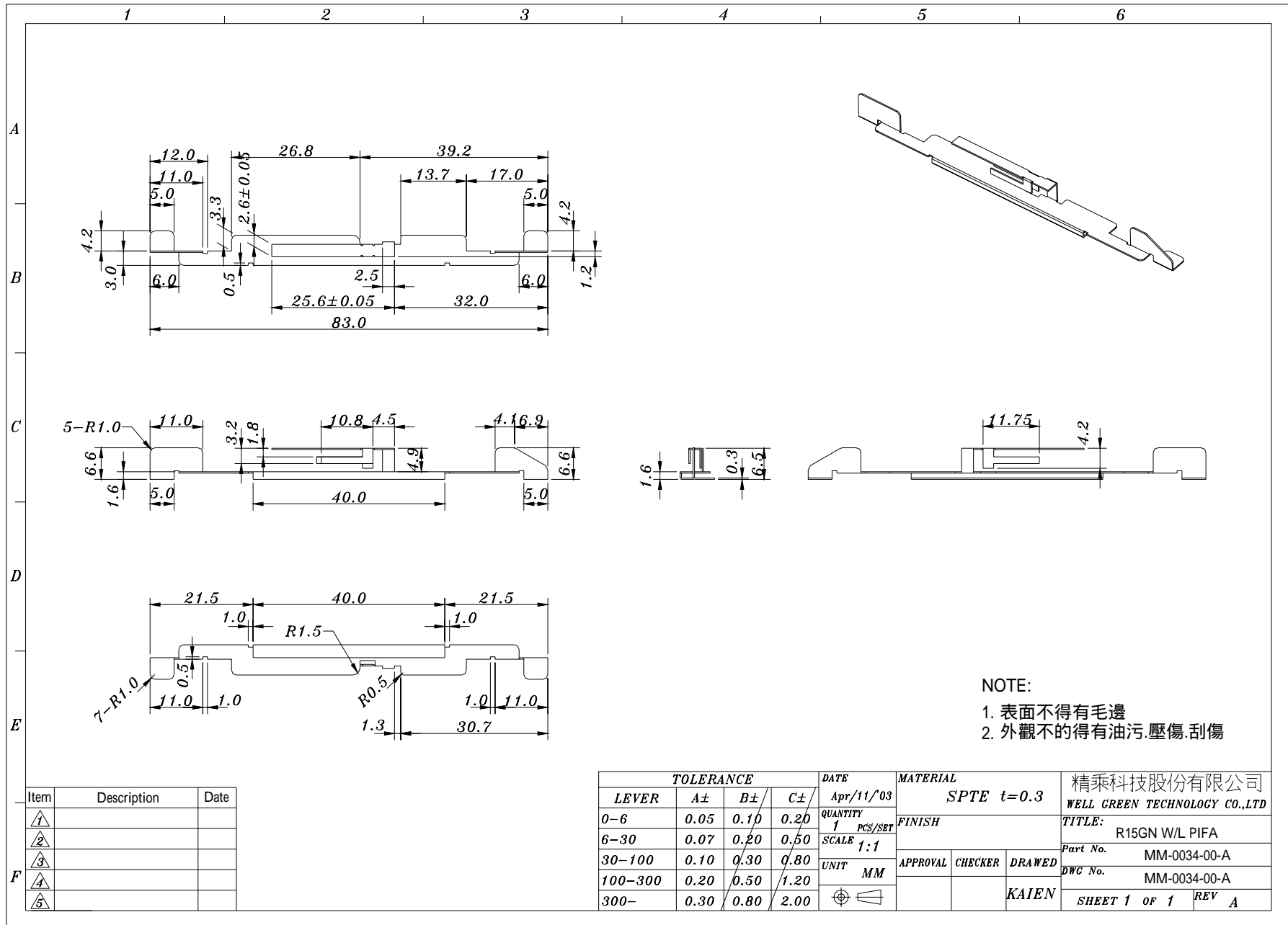
Item	Description	Date
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LEVER	TOLERANCE			DATE	MATERIAL
	A±	B±	C±		
0-6	0.05	0.10	0.20	Apr/14/03	FINISH
6-30	0.07	0.20	0.50	QUANTITY	
30-100	0.10	0.30	0.80	1 PCS/SET	
100-300	0.20	0.50	1.20	SCALE 1:1	
300-	0.30	0.80	2.00	UNIT MM	

APPROVAL	CHECKER	DRAWED
		KAIEN

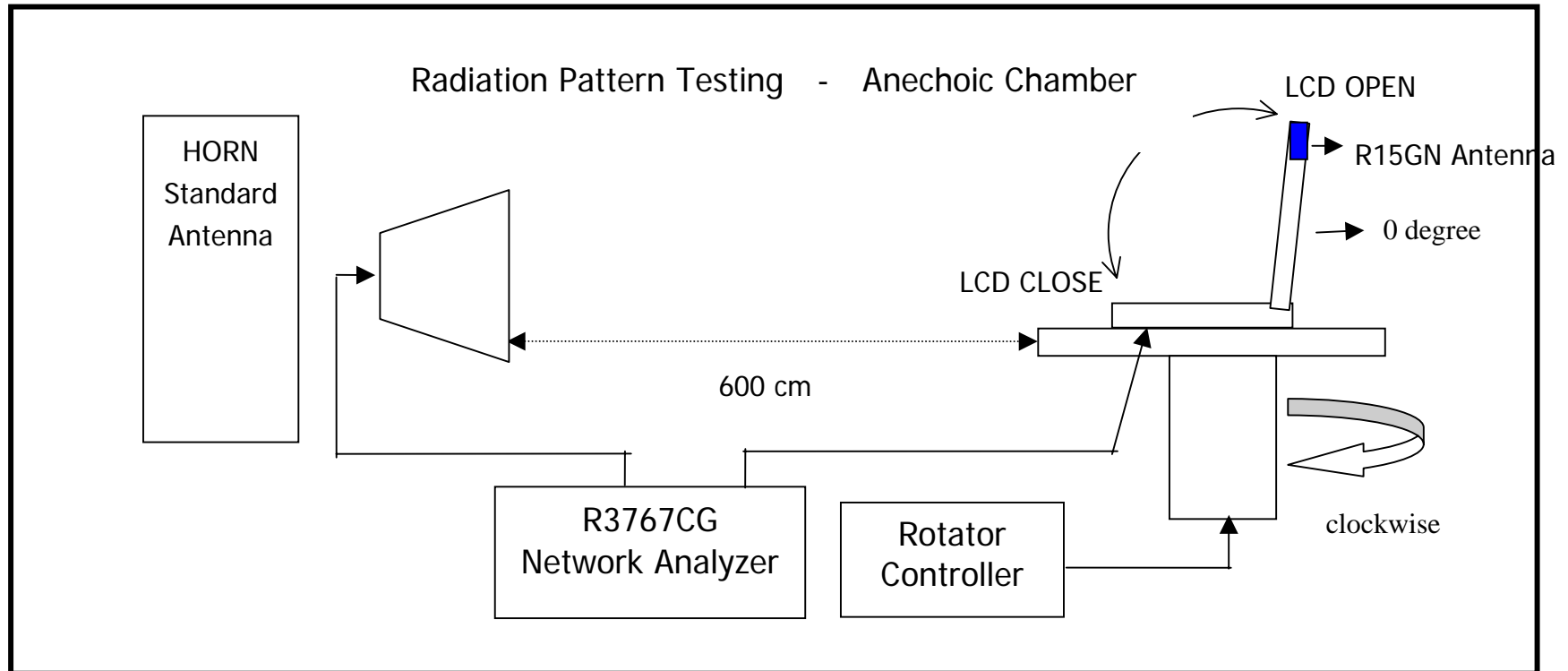
精乘科技股份有限公司
 WELL GREEN TECHNOLOGY CO.,LTD
 TITLE: R15GN
 Part No. TWR15WIPI01A
 DWG No. R15-WIR-ATW01-A
 SHEET 1 OF 1 REV A

二、零件圖

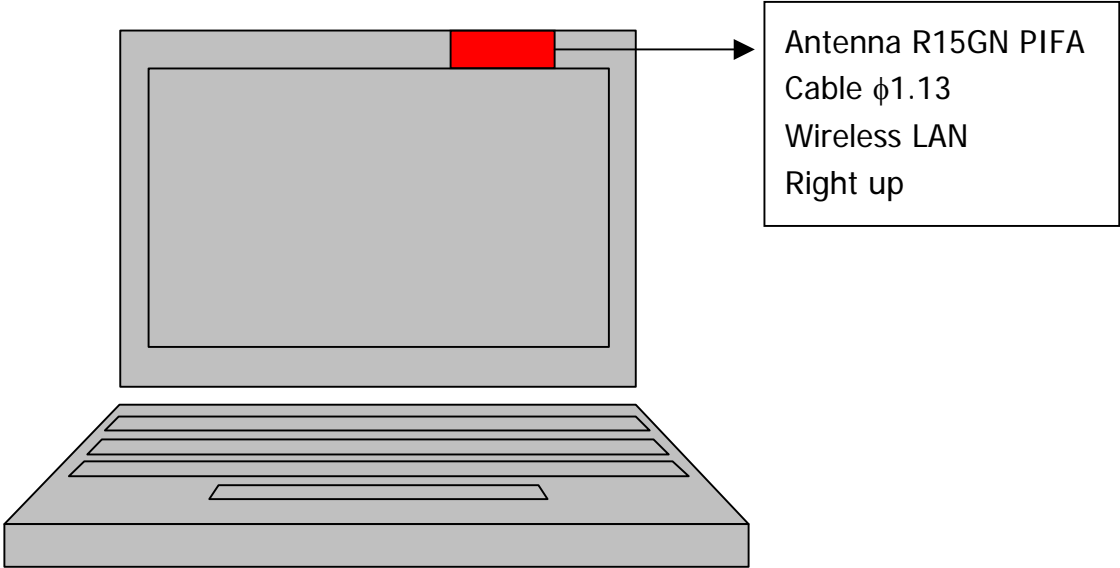


三、 802.11b and WIRELESS Antenna Testing Conditions :

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

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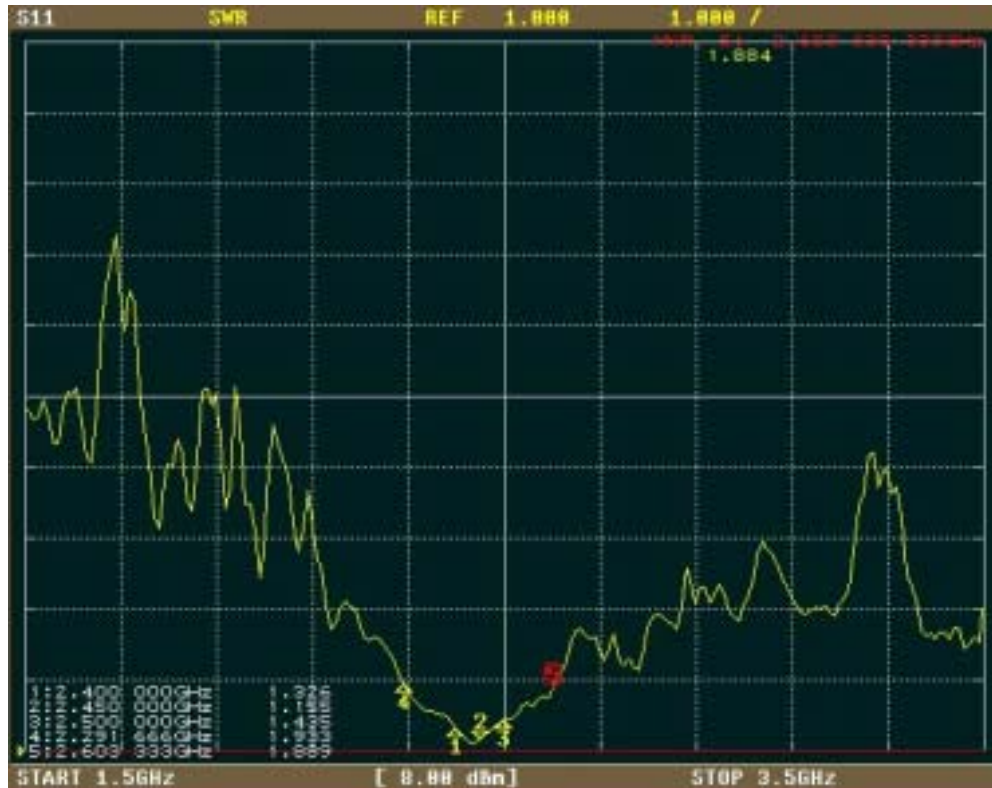
Well GreenTechnology
CO., Ltd

P/N : TWR15WIPI01A

Frequency Band : 2.4~2.5GHz

Date : 04 APR.,2003

2. VSWR



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

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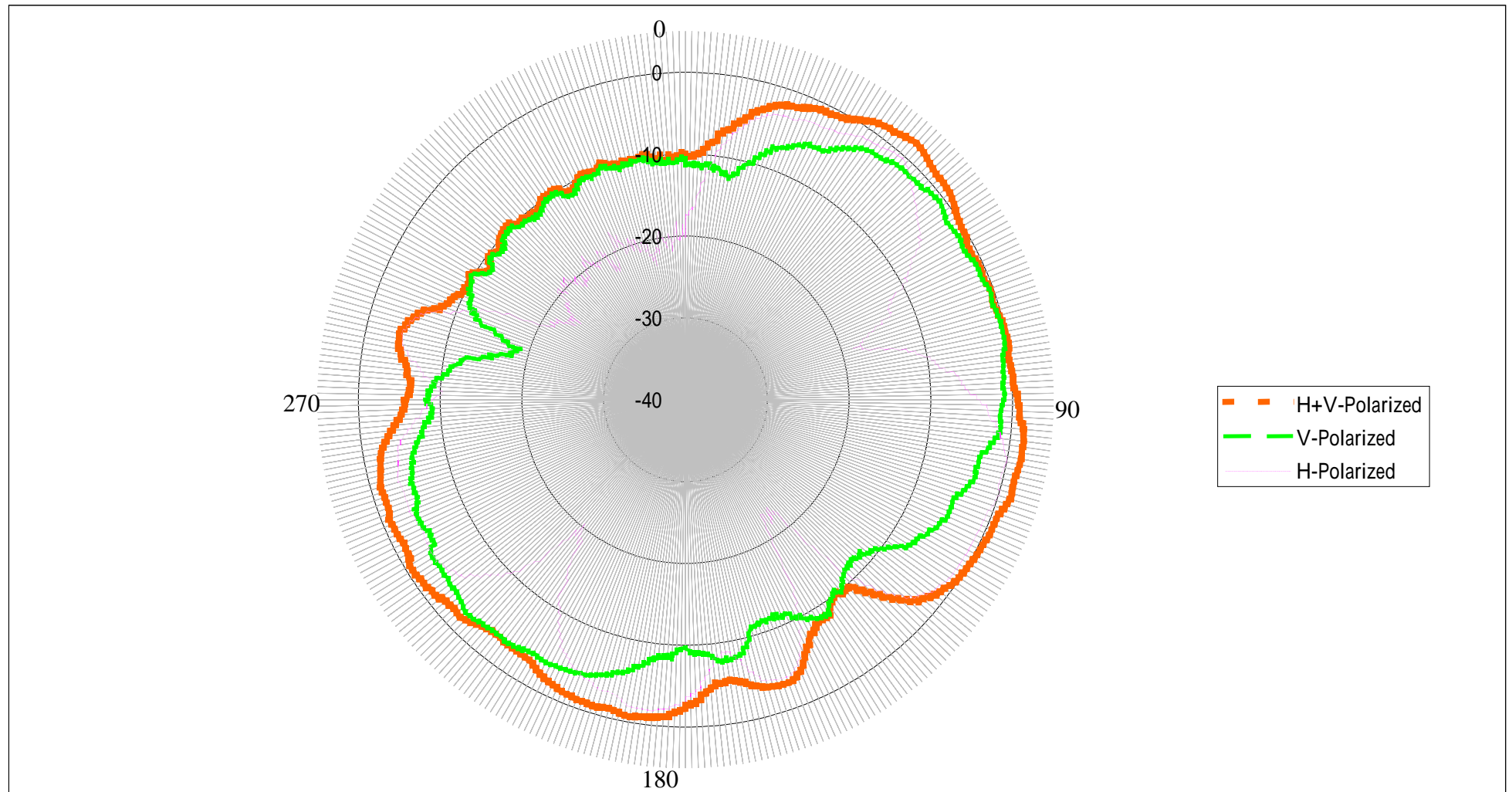
P/N : TWR15WIPI01A

Frequency Band : 2.4~2.5GHz

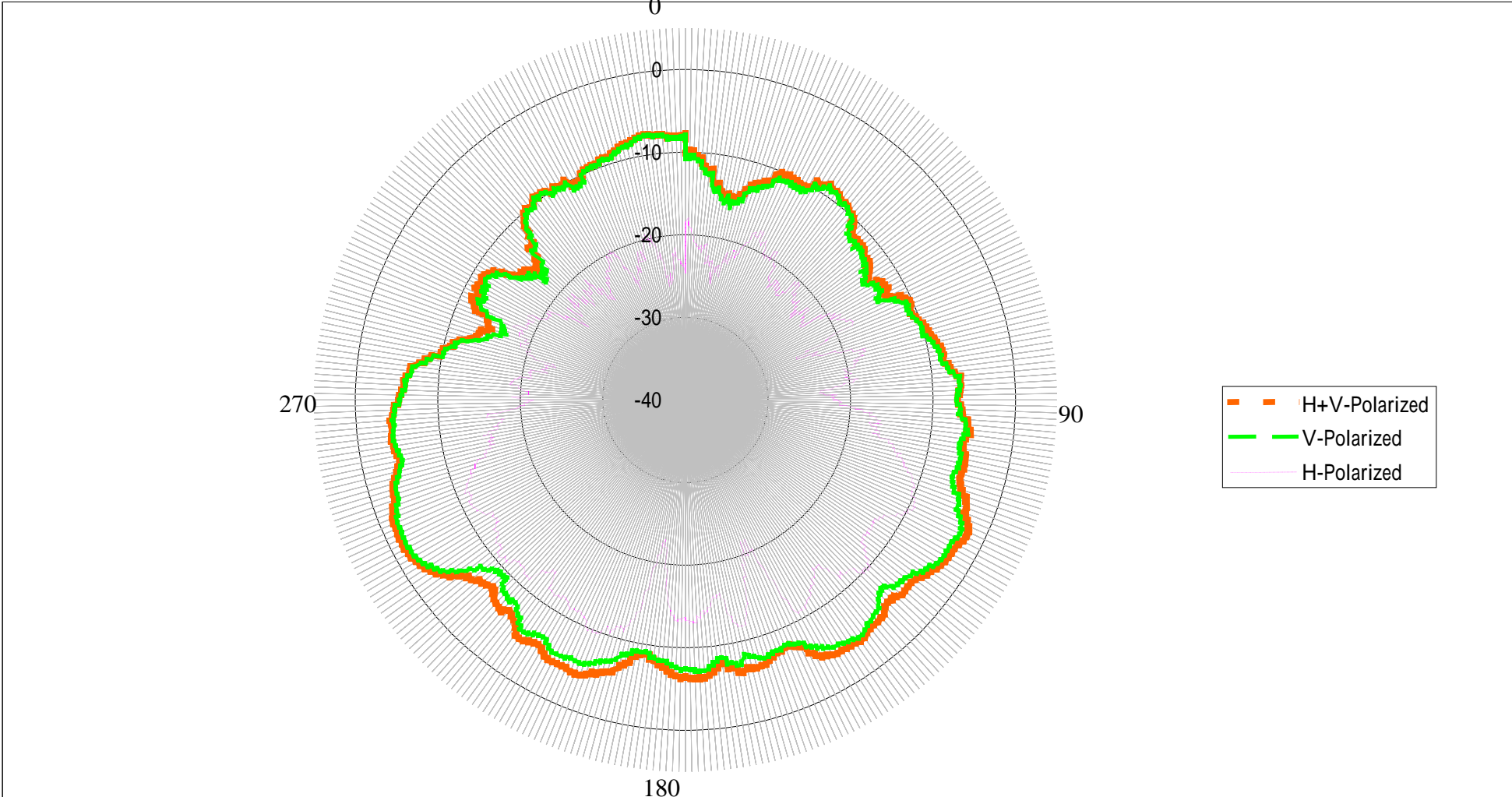
Date : 04 APR.,2003

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 peak gain 3dBi
Standard Connector	: I-PEX Connector