WIFI-Link™ Technologies Inc.
崴 海 尼 可 網 路 科 技 有 限 公 司
WEB:http://www.wifi-link.com.tw/ TEL:06-2523801 FAX:06-2526033

5dBi 黑色單頻天線 (2.4GHz)
WL-DA-5RS-03

APPLICATIONS AND FEATURES

Applications:

- 2.4GHz-2.5GHz ISM Band
- IEEE 802.11b/g/n Wireless LAN
- Pubic Wireless Hotspot
- Bluetooth、Wi-Fi、RFID
- Wireless Video Systems
- Directional and multipoint application

Features :

- Superior Performance
- Made with weatherproof and corrosion resistant
- Good appearance design
- Installed for vertical or horizontal polarization
- Outdoor antenna for public Hot spots
- Heavy Duty mounting
- RoHS Compliant

SPECIFICATIONS:

Electrical Specifications

Frequency Range	2400~2500 MHz
V.S.W.R	≦2.0:1
Antenna Type	Dipole Sleeve
Gain	≧5 + 0.5dBi
Polarization	Linear
Horizontal Beam-with	360°
Impedance	50Ω
Connector	RP SMA MALE

Mechanical Specifications

Dimension	195mm
Weight	20g
Housing	TPEE
Hinge	ABS
Color	Black
Operating Temperature	-20℃ to +70 ℃
Storage Temperature	-20℃ to +70 ℃

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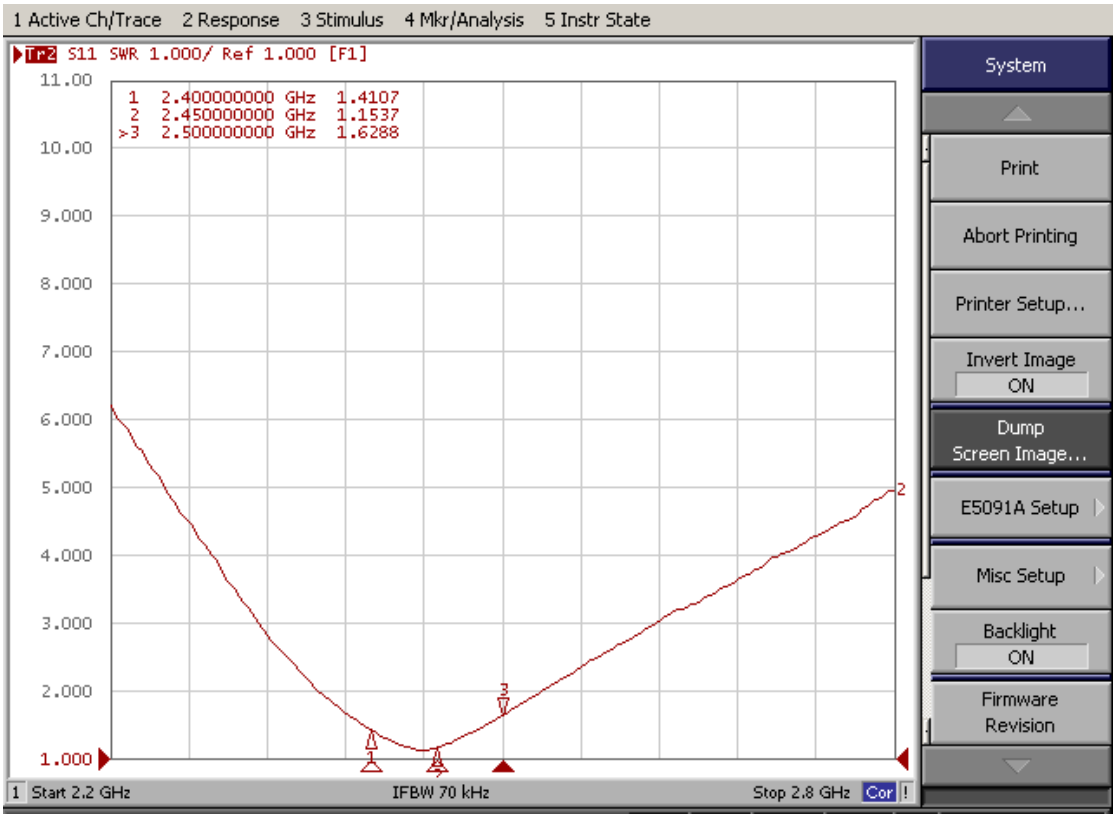
Reliability Testing

Test Item	Procedure	Requirement
Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1.no visible damage 2. Freq. Tol. : < ±5%
Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

Testing Report

V.S.W.R.



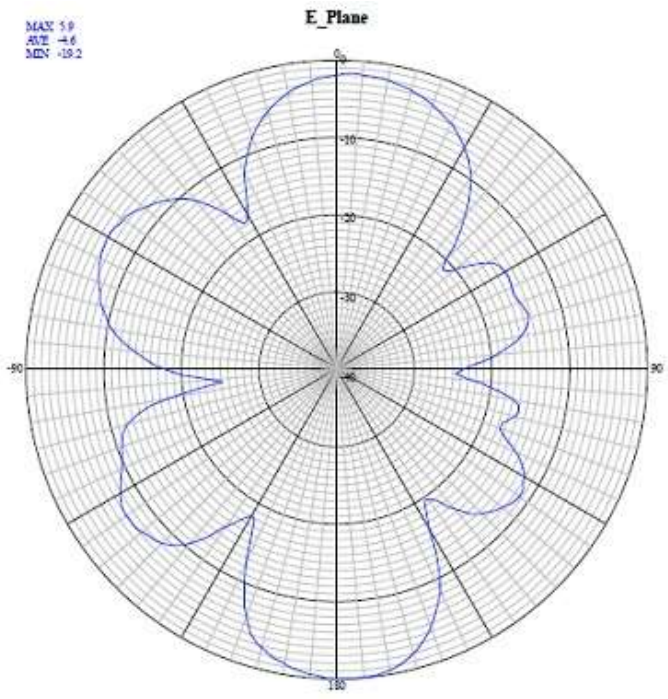
Antenna Gain

頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	5.9 dBi	5.5 dBi
2.45 GHz	6.0 dBi	5.6 dBi
2.5 GHz	5.6 dBi	4.8 dBi

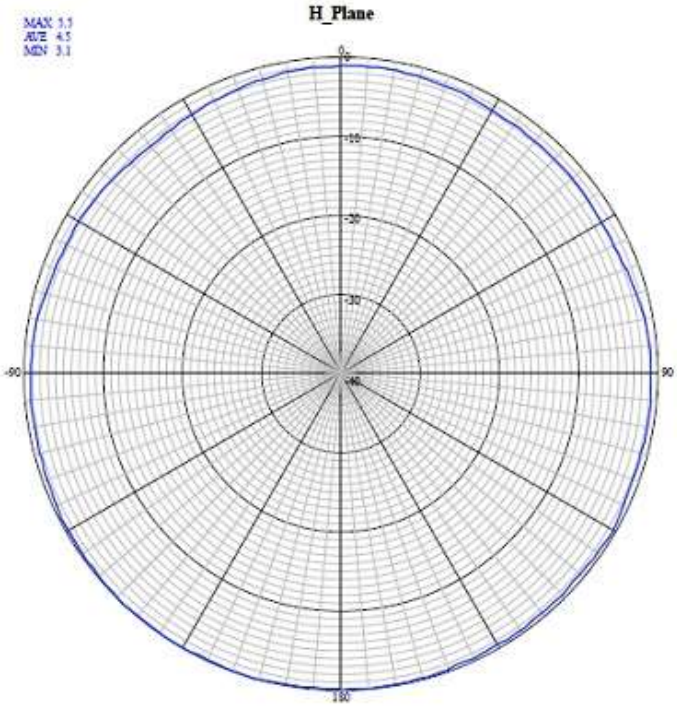
頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	37.6 deg
2.45 GHz	360.0 deg	34.9 deg
2.5 GHz	360.0 deg	36.0deg

Antenna Vertical & Horizontal Pattern

Vertical



Horizontal



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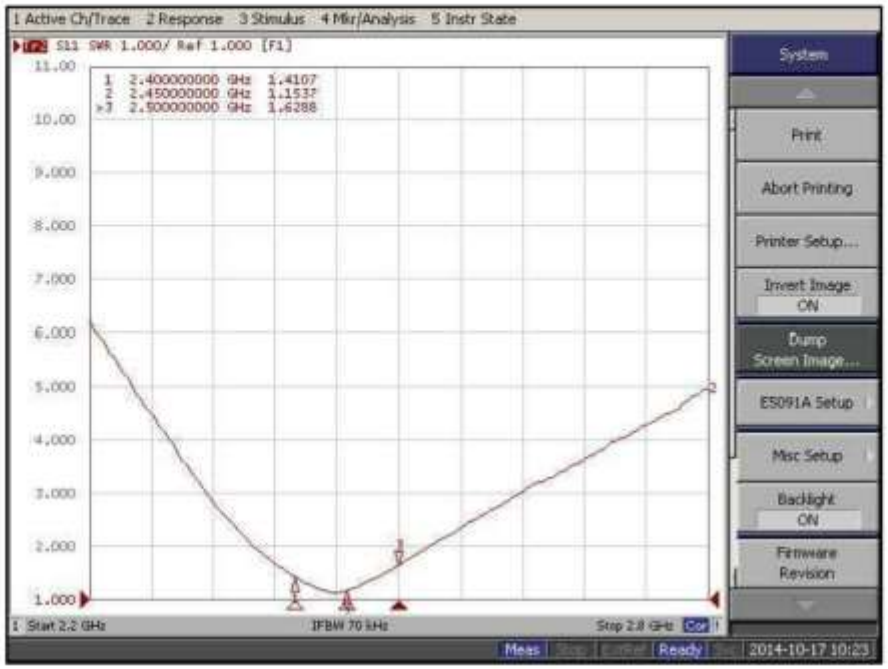
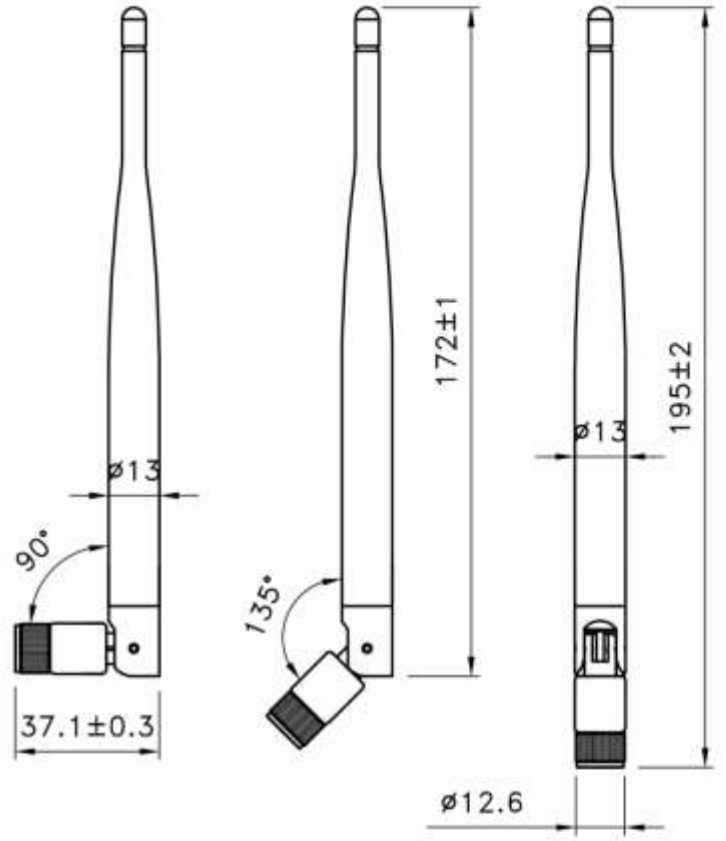
REV	DATE	DESCRIPTION	DRAWN
⚠			





ELECTRIC

S.W.R.: 2.4~2.5 GHz≦2.0
GAIN: ≧5.0 dBi
IMPEDANCE: 50 Ω

MATERIAL

MATERIAL OF RADIATOR: CU
CONNECTOR TYPE: RP SMA MALE

ENVIRONMENTAL

STORAGE TEMPERATURE: -20˚C~70˚C
OPERATING TEMPERATURE: -20˚C~70˚C

NO	DESCRIPTION	MATERIAL	FINISH	Q'ty
6	RG178U-1	ASSY	BROWN	1
5	N0533	BRASS	NONE	1
4	N0544	BRASS	NONE	1
3	Y0391	ABS	BLACK	1
2	Y0384	ABS	BLACK	1
1	SMA-1067-11-RP-DGB	ASSY	BLACK	1

RoHS COMPLIANT

NOTE	TOLERANCES
1.STRIP ALL BURRS. 2.ALL DIMENSIONS ARE AFTER PLATING. 3.DIAMETERS ON COMMON CENTERS. TO BE CONCENTRIC WITHIN 0.1 T.I.R 4.CHAMFER 1ST & LAST THREADS 45°. 5.BREAK ALL CONNERS & EDGES C0.15 MAX.	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3 0.X=±0.2 0.XX=±0.1

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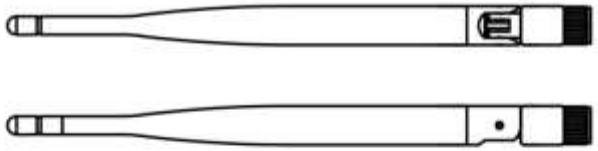
TITLE	5dBi黑色單頻天線 (2.4GHz)
DRAWING NO.	WL-DA-5RS-03
APPROVED	DRAWN DATE 10/27/14
CHECKED	SCALE 1:2
DRAWN ALICE	UNIT mm

<1>



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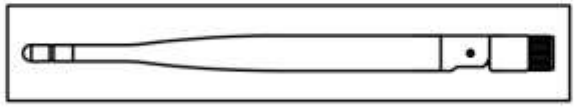
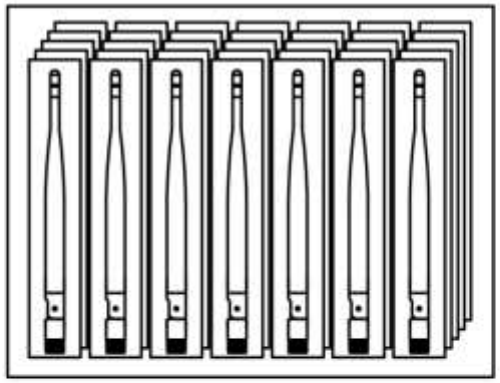


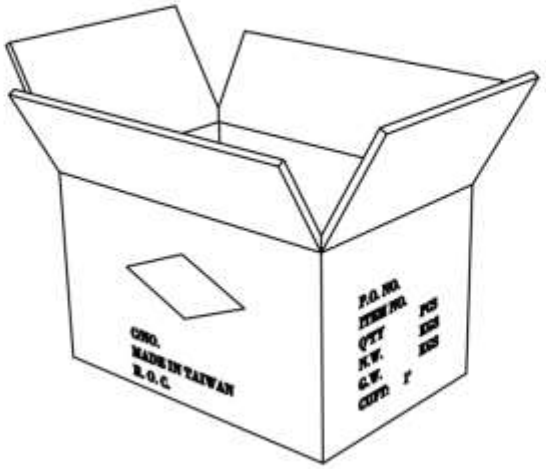
1PC antenna pack into a PE bag

<3>



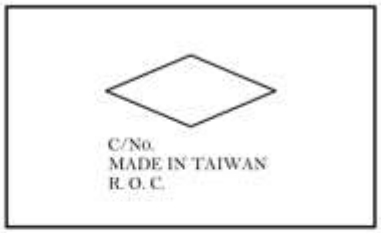
100PCS pack into one polybag

<4>

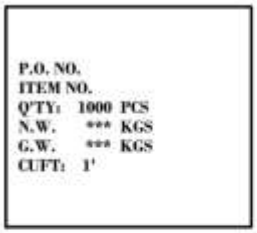


1000PCS antenna in one carton

Main mark



Side mark



Package Description:

Step 1: 1PC antenna pack into PE bag （Figure 2）

Step 2: 100PCS antenna in one polybag

Step 3: 1000PCS antenna in one carton

Step 4: Carton sealed with transparent tape

Step 5: The outer boxes fill in the product name, quantity, weight.

NOTE	DIMENSION
1.STRIP ALL BURRS. 2.ALL DIMENSIONS ARE AFTER PLATING. 3.DIAMETERS ON COMMON CENTERS. TO BE CONCENTRIC WITHIN 0.1 T.I.R 4.CHAMFER 1ST & LAST THREADS 45°. 5.BREAK ALL CONNERS & EDGES C0.15 MAX.	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3 0.X=±0.2 0.XX=±0.1

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TITLE: 5dBi黑色單頻天線 (2.4GHz)	
DRAWING NO.: WL-DA-5RS-03	
APPROVED	DRAWN DATE: 10/15/14
CHECKED	SCALE: 1:1
DRAWN: ALICE	UNIT: mm