



**WIFI-Link™ Technologies Inc.**

歲海尼可網路科技有限公司

WEB: <http://www.wifi-link.com.tw/> TEL: 06-2523801 FAX: 06-2526033

## 2dBi 黑色單頻天線 (2.4GHz)

### WL-DA-2RS-02

## APPLICATIONS AND FEATURES

### Applications:

- 2.4GHz-2.5GHz ISM Band
- IEEE 802.11b/g/n Wireless LAN
- Public 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	≥ 2.0 + 0.5dBi
Polarization	Linear
Horizontal Beam-width	360°
Impedance	50Ω
Connector	RP SMA MALE

### Mechanical Specifications

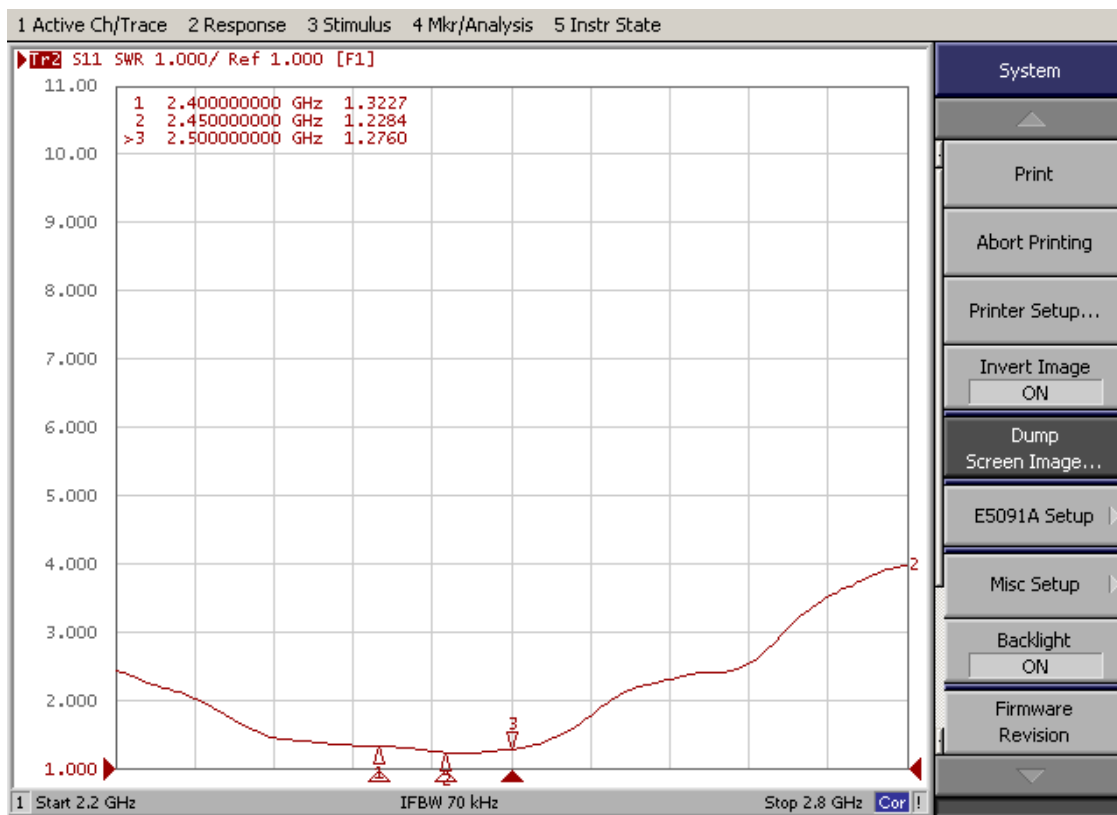
Dimension	106.8mm
Weight	7g
Housing	ABS
Hinge	ABS
Color	Black
Operating Temperature	-20°C to +70 °C
Storage Temperature	-20°C to +70 °C

# 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.



**WIFI-Link™ Technologies Inc.**

歲海尼可網路科技有限公司

WEB:<http://www.wifi-link.com.tw/> TEL:06-2523801 FAX:06-2526033

## Antenna Gain

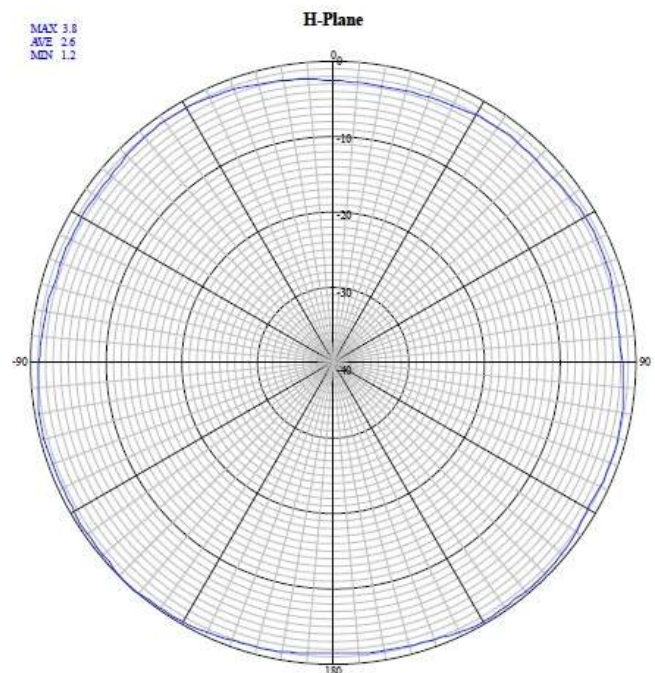
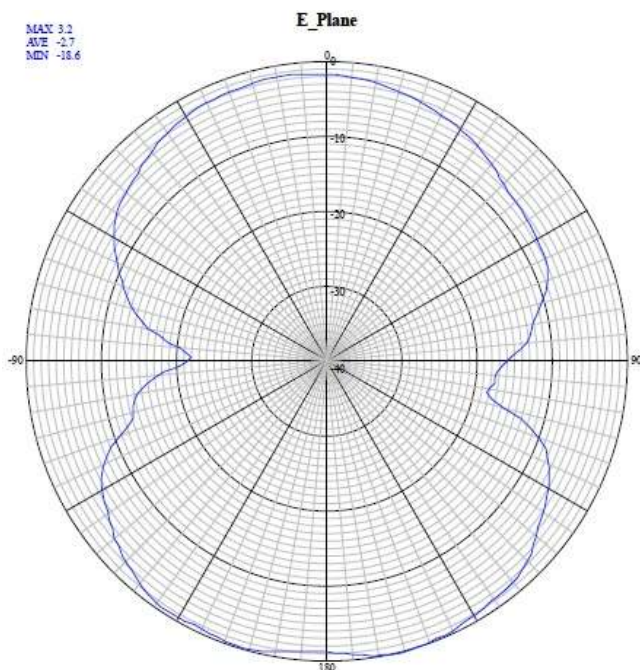
頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	3.5 dBi	3.1 dBi
2.45 GHz	3.8 dBi	3.2 dBi
2.5 GHz	3.6 dBi	2.9 dBi

頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	100.8 deg
2.45 GHz	360.0 deg	99.0 deg
2.5 GHz	360.0 deg	95.4 deg

## Antenna Vertical & Horizontal Pattern

### Vertical

### Horizontal

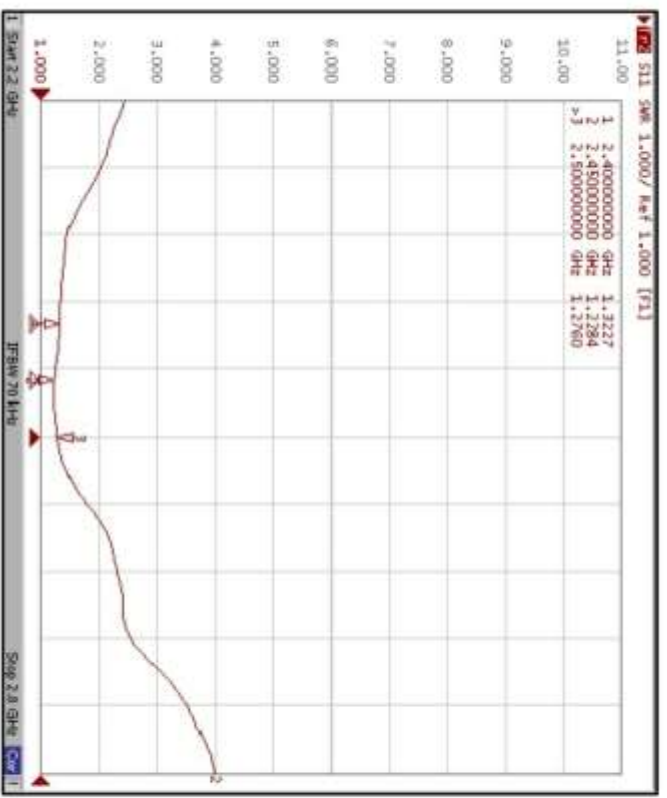


**WIFI-Link™ Technologies Inc.**

歲海尼可網路科技有限公司

WEB:<http://www.wifi-link.com.tw/> TEL:06-2523801 FAX:06-2526033

REV	DATE	DESCRIPTION	DRAWN
A			



**ELECTRIC**

S.W.R.: 2.4~2.5 GHz ≤ 2.0  
 GAIN: ≥ 2.0 dBi  
 IMPEDANCE: 50 Ω

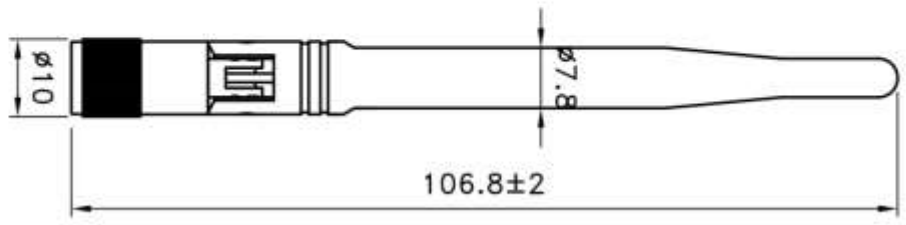
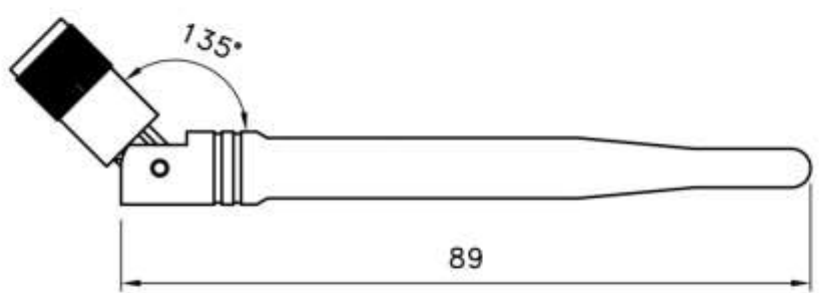
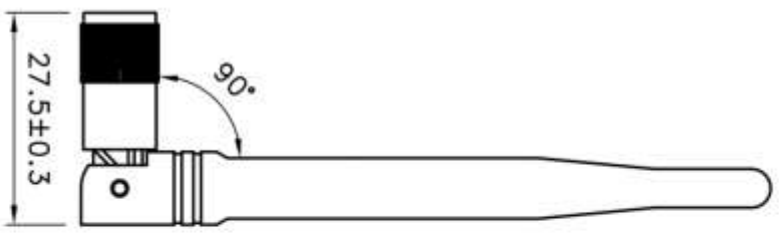
**MATERIAL**

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
5	1.13 CABLE	ASSY	BLACK	1
4	N0543	BRASS	NONE	1
3	Y0385	ABS	BLACK	1
2	Y0383	ABS	BLACK	1
1	SMA-1067-10-RP-DGB	ASSY	BLACK	1



**NOTE**

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 15° & LAST DIAMETER 7.8.
5. BREAK ALL CORNERS & EDGES CO.15 MAX.

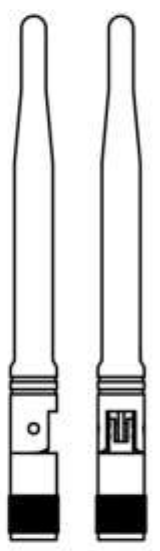
**TOLERANCES**

UNLESS OTHERWISE NOTED TOLERANCES

X = ±0.3  
 0.X = ±0.2  
 0.XX = ±0.1

 台灣威海尼可	
<b>TITLE</b> 2dBi 黑色單頻天線 (2.4GHz)	
<b>DRAWING NO.</b> WL-DA-2RS-02	<b>DRAWN DATE</b> 09/30/14
<b>APPROVED</b>	<b>SCALE</b> 1:1
<b>CHECKED</b>	<b>UNIT</b> mm
<b>DRAWN</b> ALICE	

<1>



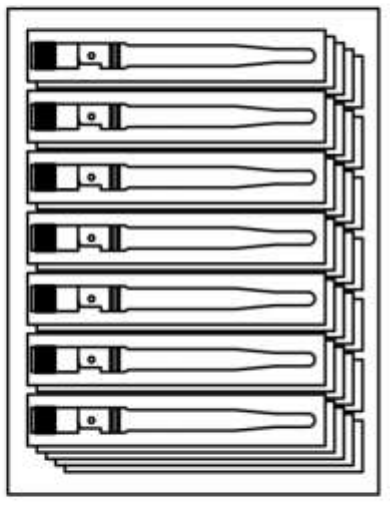
<2>



1PC antenna pack into a PE bag



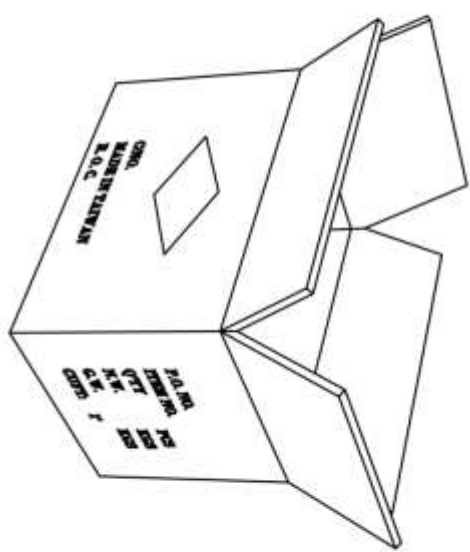
<3>



100PCS pack into one polybag



<4>



2500PCS antenna in one carton

Package Description:

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

Step 2: 100PCS antenna in one polybag

Step 3: 2500PCS 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.	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3 0.X=±0.2 0.XX=±0.1
2.ALL DIMENSIONS ARE AFTER PLATING.	
3.DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN 0.1 T.I.R.	
4.CHAMFER 15° & LAST DIAMETERS.	
5.BREAK ALL CORNERS & EDGES CO.15 MAX.	



 <b>WIFI-LINK™</b> 台灣威海尼可		TITLE	2DBi 黑色單頻天線 (2.4GHz)
		DRAWING NO.	WL-DA-2RS-02
APPROVED		DRAWN DATE	10/15/14
CHECKED		SCALE	1:1
DRAWN	ALICE	UNIT	mm