



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 黑色雙頻天線 I-PEX1.37/L=15cm(2.4/5GHz)

WLD1-IPEX-02-01

APPLICATIONS AND FEATURES

Applications:

- 2.4GHz-2.5GHz / 5.15~5.85GHz ISM Band
- IEEE 802.11a/b/g/n Wireless LAN
- 802.16WiMax Networks
- 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 5150~5850 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	IPEX
Coaxial Cable	150mm 1.13 cable

Mechanical Specifications

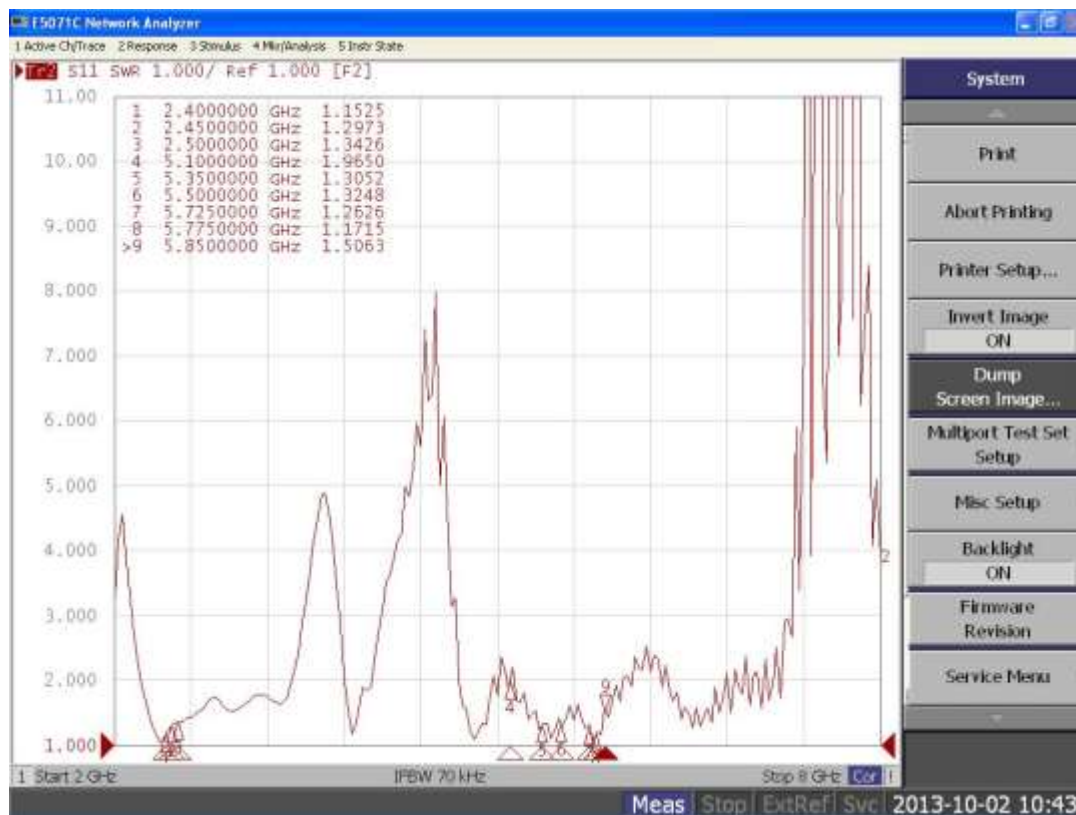
Dimension	108mm
Weight	6g
Housing	ABS
Hinge	PC+PBT
Color	Black
Operating Temperature	-20°C to +70 °C
Storage Temperature	-20°C to +70 °C

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.



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Antenna Gain

頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	4.2 dBi	3.4 dBi
2.45 GHz	3.9 dBi	3.2 dBi
2.5 GHz	3.0 dBi	3.0 dBi
5.15 GHz	2.1 dBi	3.4 dBi
5.35 GHz	2.2 dBi	2.6 dBi
5.825 GHz	2.6 dBi	3.4 dBi

頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	84.6 deg
2.45 GHz	360.0 deg	104.4 deg
2.5 GHz	360.0 deg	111.6 deg
5.15 GHz	360.0 deg	68.3 deg
5.35 GHz	360.0 deg	82.8 deg
5.825 GHz	360.0 deg	64.7 deg



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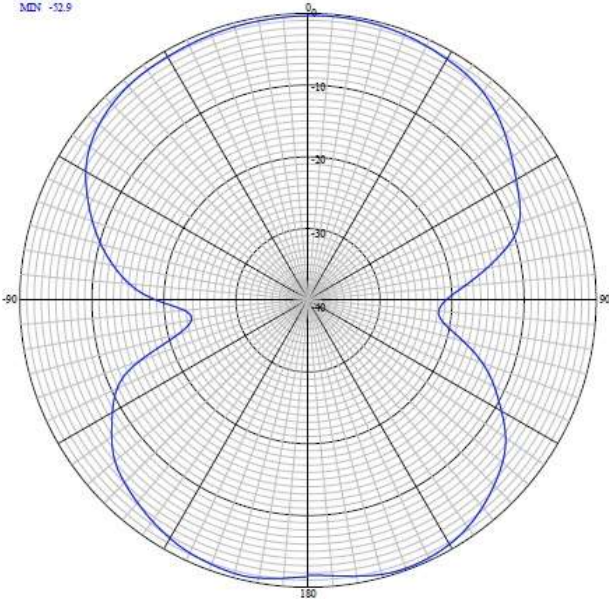
Antenna Vertical & Horizontal Pattern

2.4GHz

Vertical

E-Plane

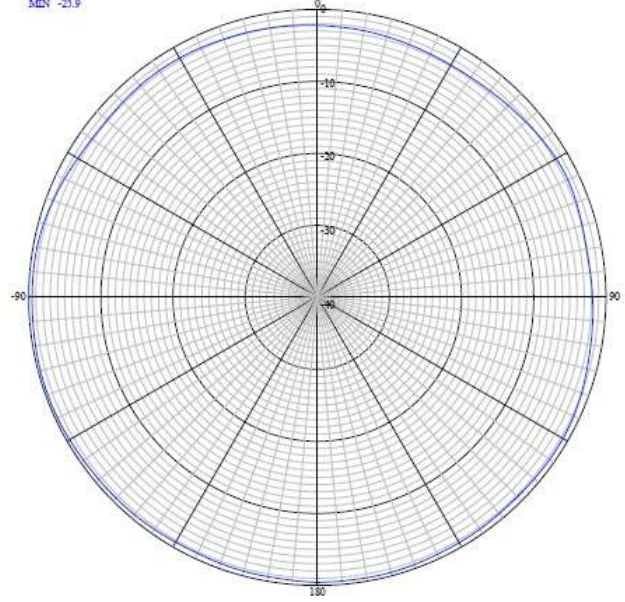
MAX -25.0
AVE -30.9
MIN -32.9



Horizontal

H-Plane

MAX -23.3
AVE -24.4
MIN -25.9

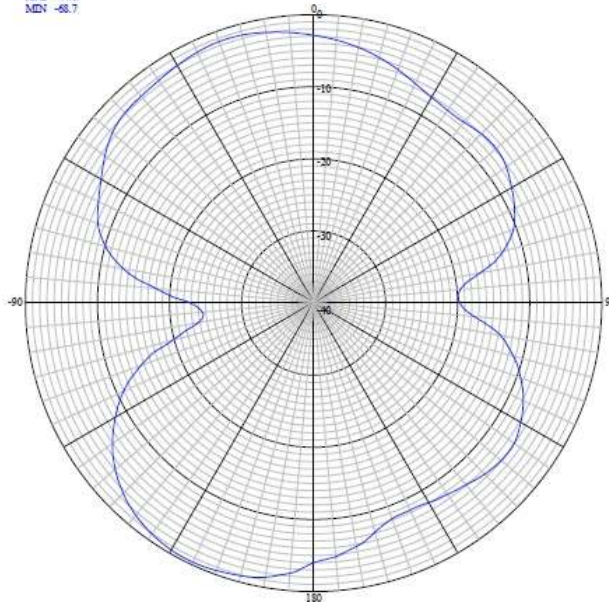


5.0GHz

Vertical

E-Plane

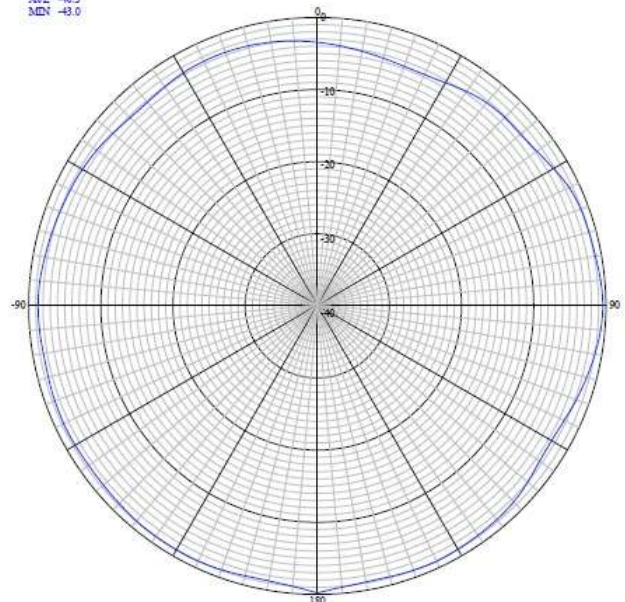
MAX -36.8
AVE -44.1
MIN -58.7



Horizontal

H-Plane

MAX -35.5
AVE -40.3
MIN -43.0

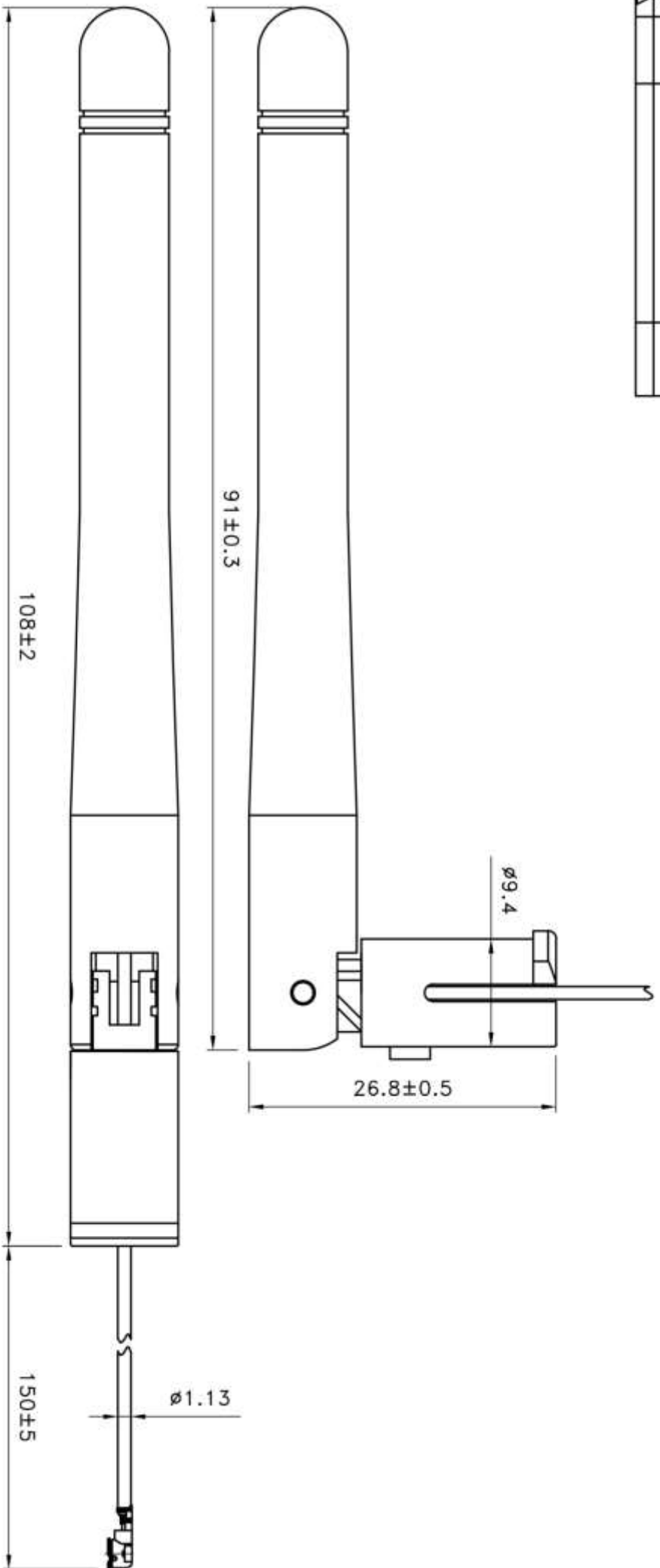


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REV	DATE	DESCRIPTION	DRAWN
A			



NOTE:
 1. UNMARKED TOLERANCE REFER TO THE STANDARD TOLERANCE PLEASE
 2. TAKE * DIMENSION IS THE IMPORTANT DIMENSION

NO	DESCRIPTION	MATERIAL	FINISH	Q'ty
4	SHRINK TUBE	EVA	BLACK	1
3	1.13 CABLE	ASSY	BLACK	1
2	MCCX MALE R/A	BRASS	GOLD	1
1	BODY	ABS	BLACK	1

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Prohibit re-circulating

ROHS
 COMPLIANT

WIFI-link
 台灣威海尼可

NOTE	DIMENSION
1. STRIP ALL BURRS 2. ALL DIMENSIONS ARE AFTER PLATING. 3. DIAMETERS ON COMMON CENTERS. 4. CHAMFER 1ST & LAST 45 DEGREE 5. BREAK ALL CORNERS & EDGES CO.15 MAX.	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3 0.X=±0.2 0.XX=±0.1

TITLE 2DBI黑色雙頻天線I-PEX1.37(2.4/5GHZ)	
DRAWING NO.	WLD1-IPEx-02-01
APPROVED	DRAWN DATE
CHECKED	SCALE
DRAWN	UNIT
ALICE	mm