

DUAL BAND 2.4/5GHz DIPOLE ANTENNA 2dBi DA-DB-02RP-SMA-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
- 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 5150~5850 MHz
V.S.W.R	≤2.0:1
Antenna Type	Dipole Sleeve
Gain	≥2.0 + 0.5dBi
Polarization	Linear
Horizontal Beam-with	360°
Impedance	50Ω
Connector	RP SMA MALE

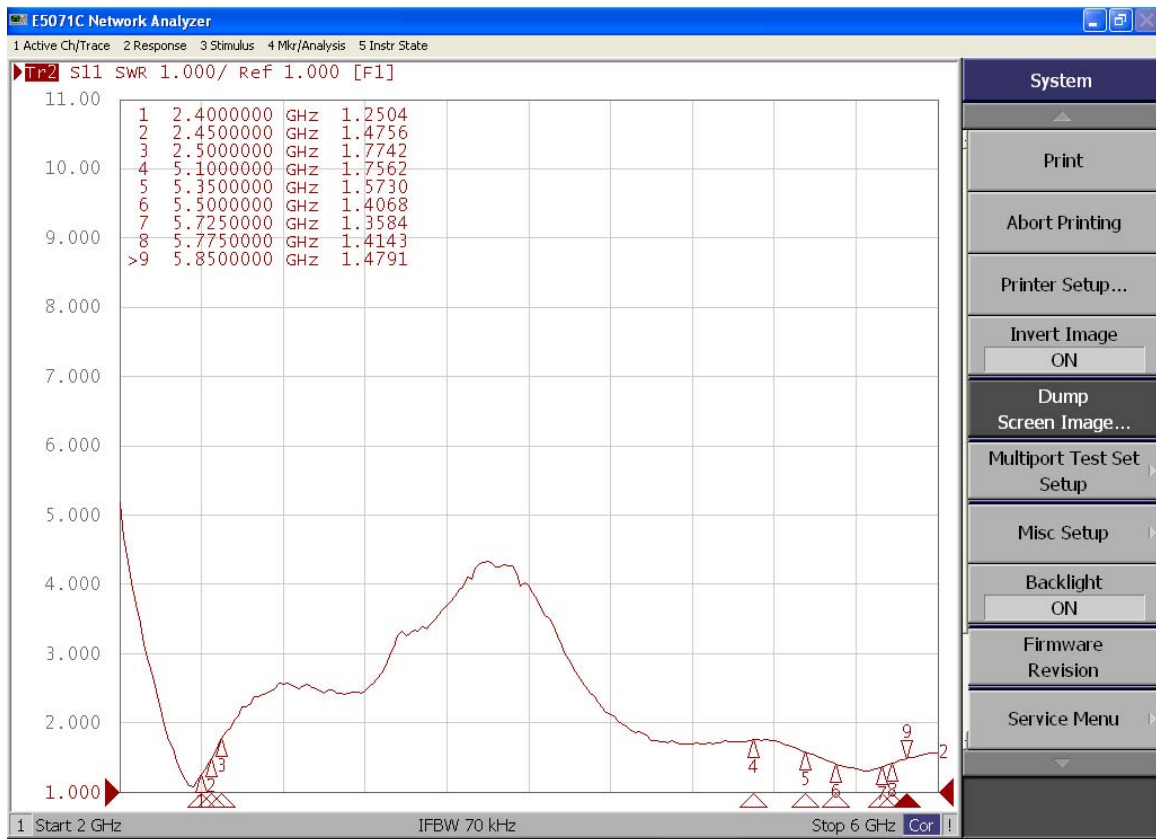
Mechanical Specifications

Dimension	108.8mm
Weight	7.5g
Housing	ABS
Hinge	ABS
Color	Black
Operating Temperature	-20℃ to +70 ℃
Storage Temperature	-20℃ to +70 ℃

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

VSWR



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Gain

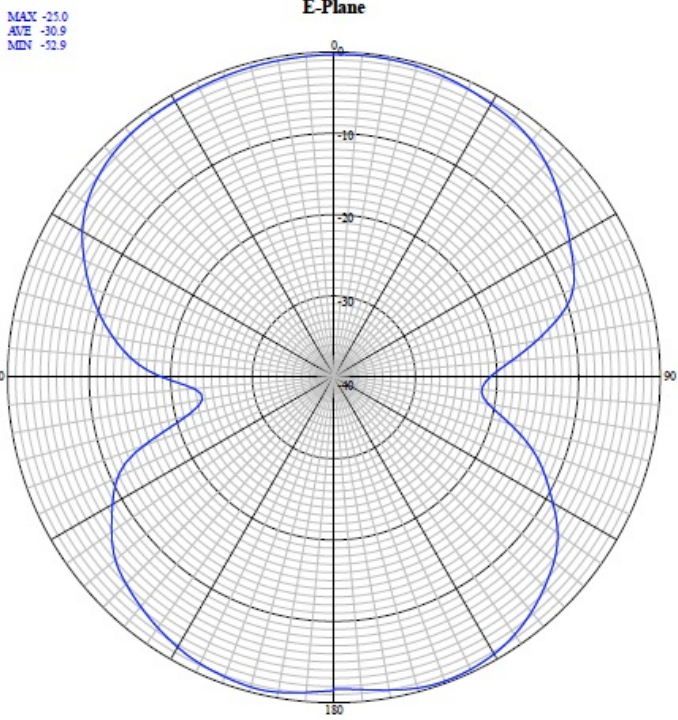
頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	4.2 dBi	3.4 dBi
2.45 GHz	3.9 dBi	3.2 dBi
2.5 GHz	3.0 dBi	3.0 dBi
5.15 GHz	2.1 dBi	3.4 dBi
5.35 GHz	2.2 dBi	2.6 dBi
5.825 GHz	2.6 dBi	3.4 dBi

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

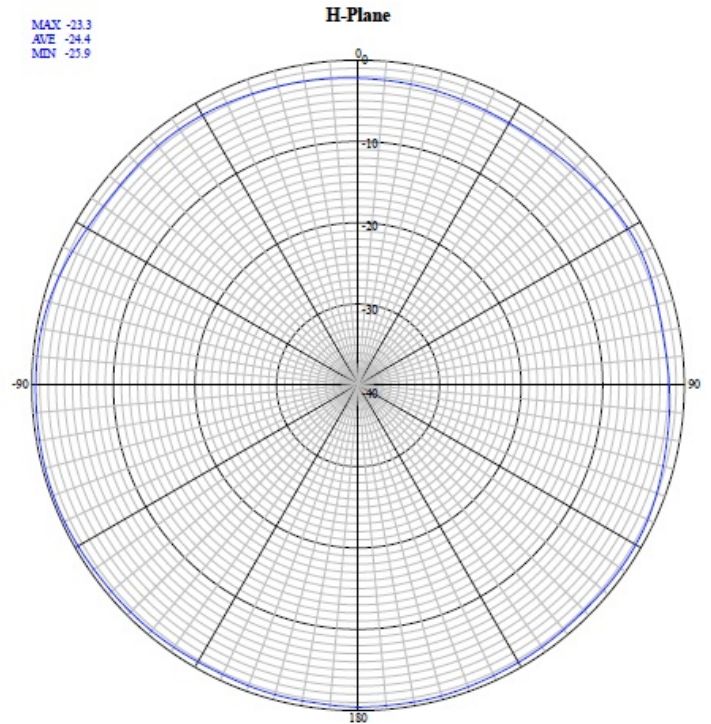
Antenna Vertical & Horizontal Pattern

2.4GHz

Vertical

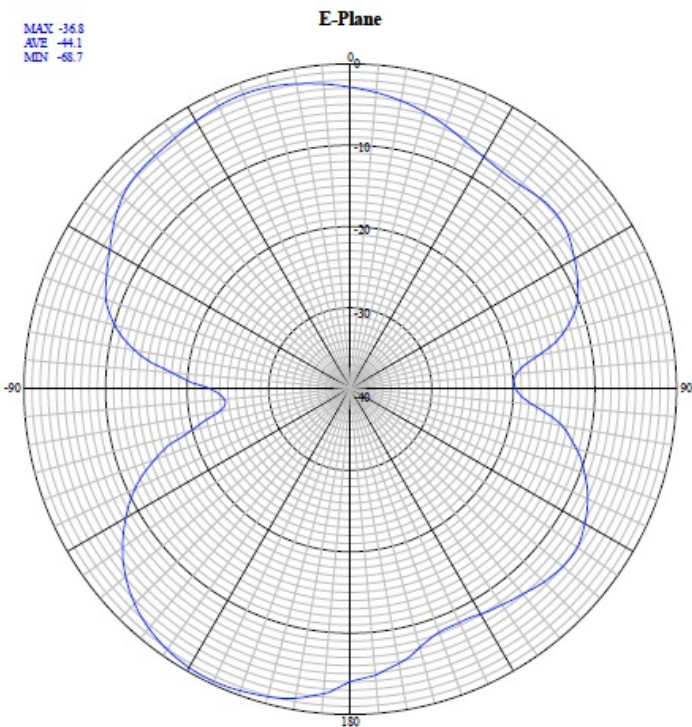


Horizontal

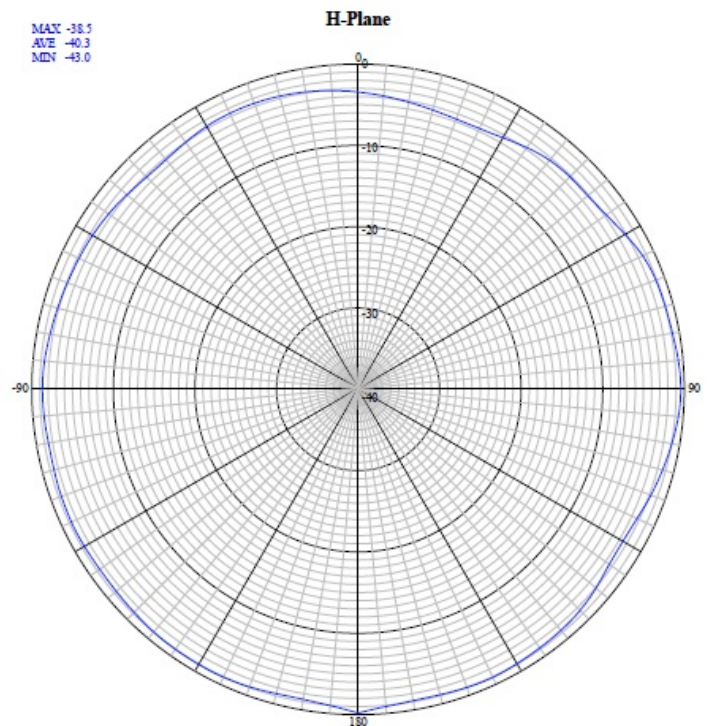


5GHz

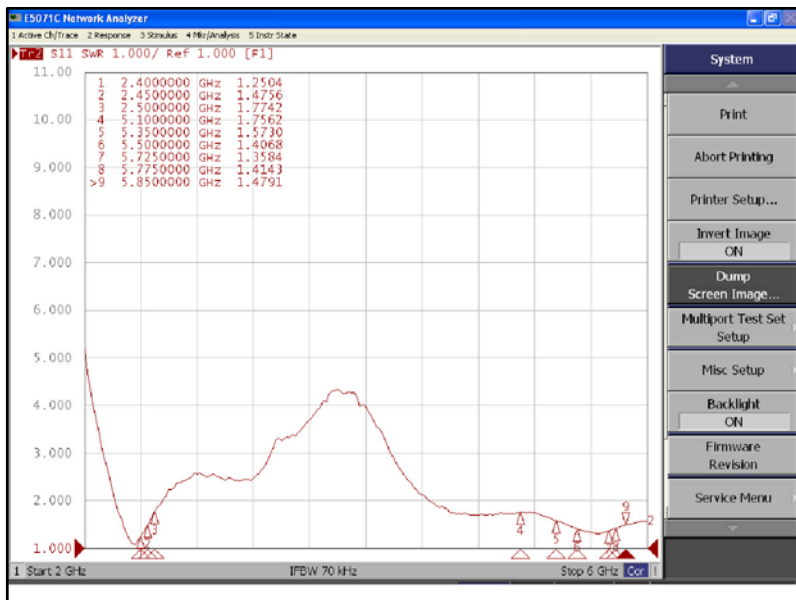
Vertical



Horizontal



REV	DATE	DESCRIPTION	DRAWN



ELECTRIC

S.W.R.: 2.4GHz ≤ 2.0
5 GHz ≤ 2.0
GAIN: 2.0+0.5 dBi
IMPEDANCE: 50 Ω

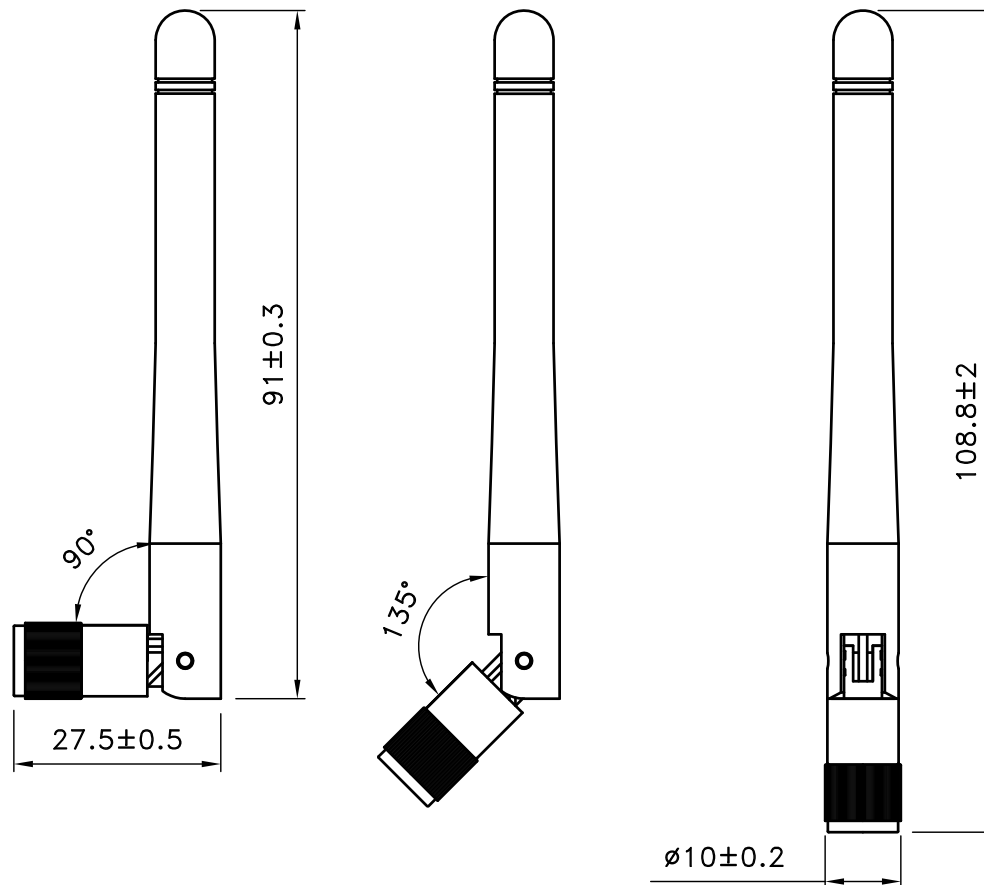
MATERIAL

MATERIAL OF RADIATOR: BRASS
CONNECTOR TYPE: RP SMA MALE

ENVIRONMENTAL

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

6	1.13 CABLE	ASSY	BLACK	1
5	N0563	BRASS	NONE	1
4	N0561	BRASS	NONE	1
3	Y0392	ABS	BLACK	1
2	Y0383	ABS	BLACK	1
1	SMA-1067-10-RP-DGB	ASSY	BLACK	1
NO	DESCRIPTION	MATERIAL	FINISH	Q'ty



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Hwa Yao Technologies co.,Ltd

NOTE	TOLERANCES			
1. STRIP ALL BURRS.	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3 0.X=±0.2 0.XX=±0.1	TITLE 2.4/5GHz DIPOLE ANTENNA 2dBi		
2. ALL DIMENSIONS ARE AFTER PLATING.		DRAWING NO. DA-DB-02RP-SMA-01		
3. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN 0.1 T.I.R		APPROVED	DRAWN DATE 09/30/14	
4. CHAMFER 1ST & LAST THREADS 45°		CHECKED	SCALE 1:1	
5. BREAK ALL CONNERS & EDGES CO.15 MAX.		DRAWN	UNIT mm	
		ALICE		