

## DUAL BAND 2.4/5GHz DIPOLE ANTENNA 5dBi DA-DB-05RP-SMA-08

### 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	5.0± 0.5dBi
Polarization	Linear
Horizontal Beam-with	360°
Impedance	50Ω
Connector	RP SMA MALE

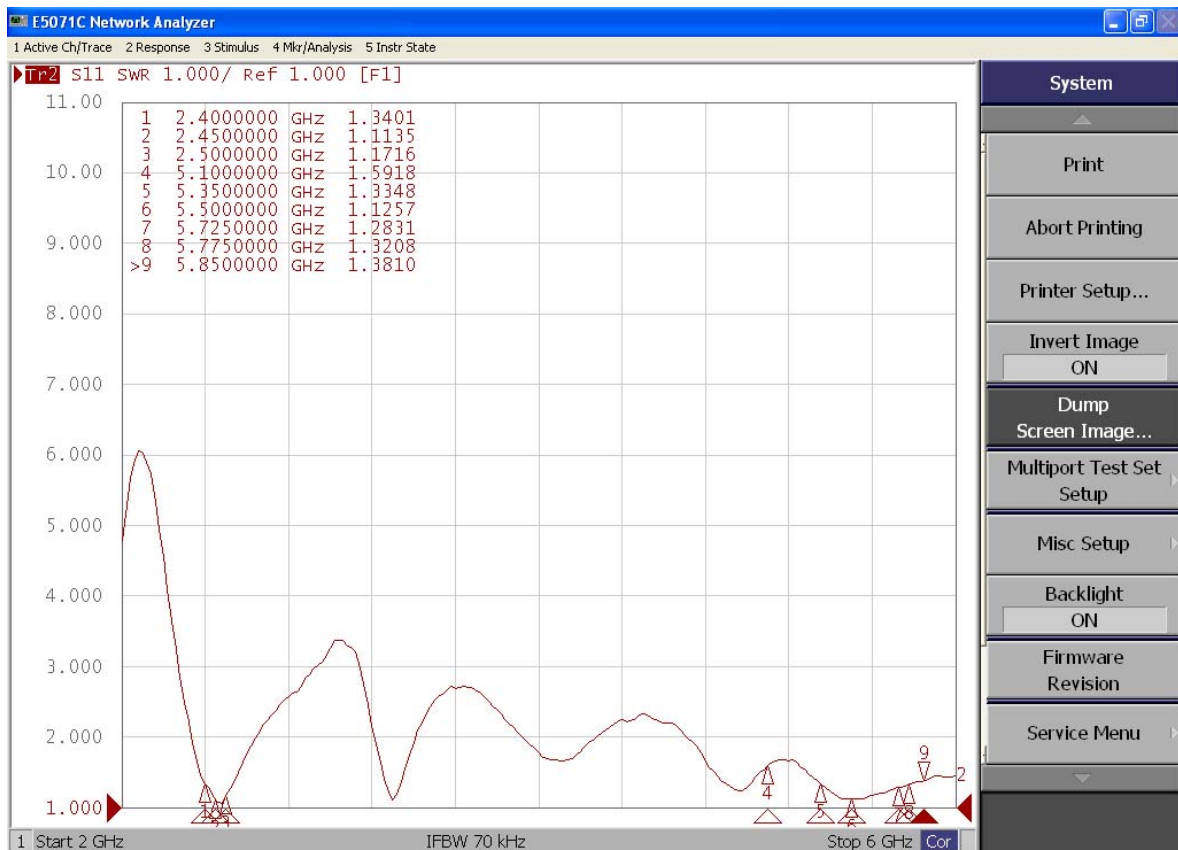
#### Mechanical Specifications

Dimension	195mm
Weight	22g
Housing	TPEE
Hinge	ABS
Color	Black
Operating Temperature	-20°C to +70 °C
Storage Temperature	-20°C to +70 °C

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.: < $\pm 5\%$
Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1.no visible damage 2. Freq. Tol. : < $\pm 5\%$
Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < $\pm 5\%$

## TESTING REPORT

### VSWR



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## Antenna Gain

頻率	Gain
2.400GHz	6.0 dBi
2.450 GHz	6.0 dBi
2.500 GHz	5.9 dBi
5.150 GHz	4.5 dBi
5.350 GHz	5.1 dBi
5.825 GHz	4.9 dBi

頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	30.6 deg
2.45 GHz	360.0 deg	35.2 deg
2.5 GHz	360.0 deg	35.3 deg
5.15 GHz	360.0 deg	26.5 deg
5.35 GHz	360.0 deg	26.7 deg
5.825 GHz	360.0 deg	43.2 deg

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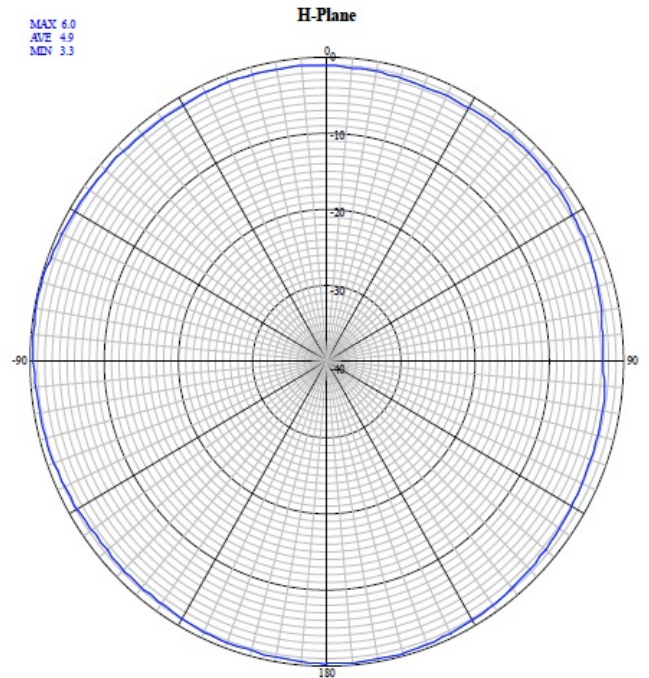
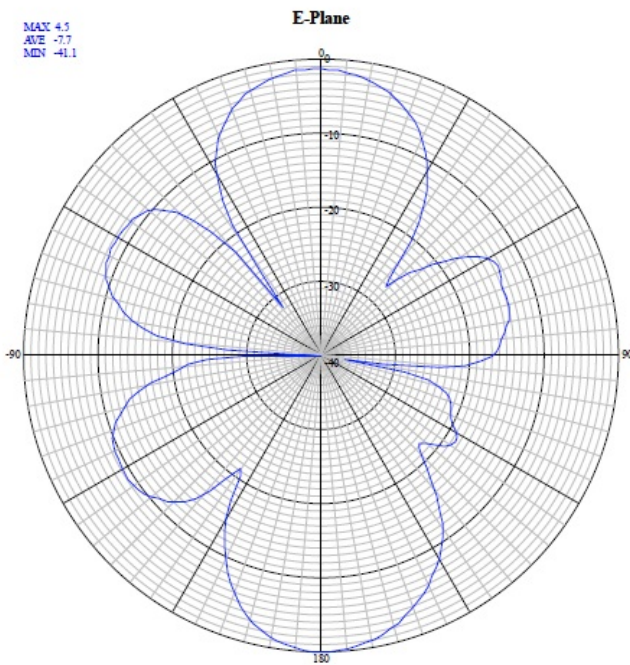
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# Antenna Vertical & Horizontal Pattern

2.4GHz

Vertical

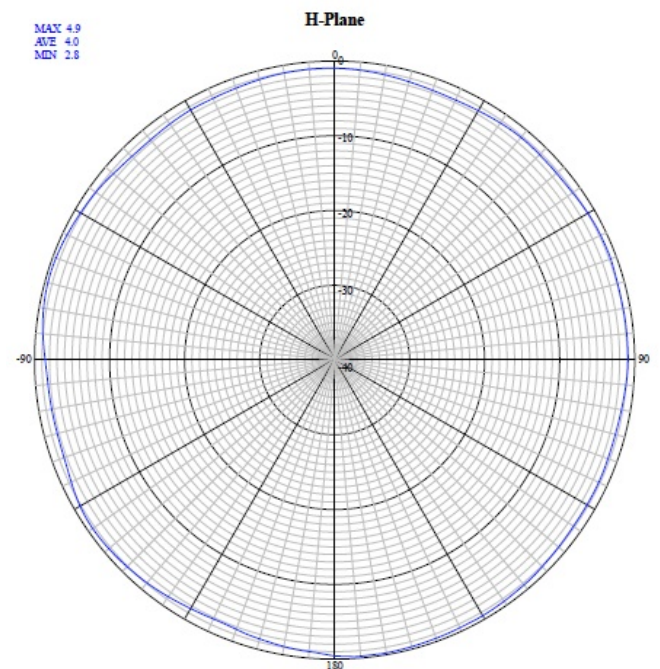
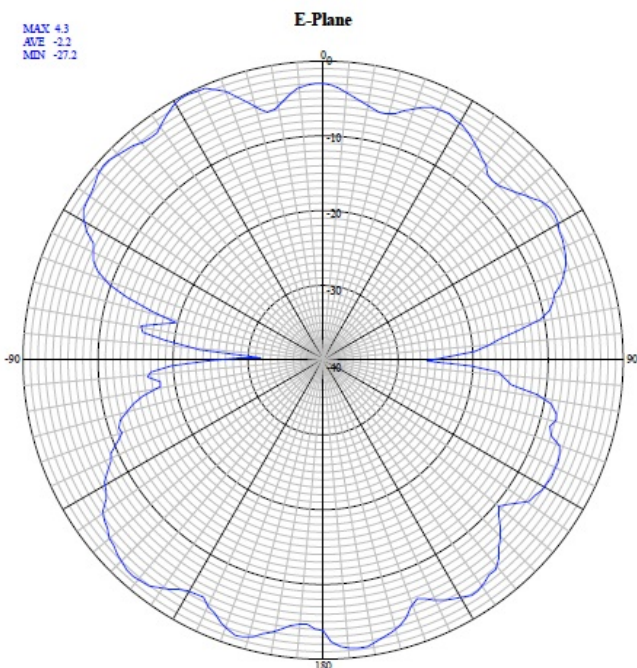
Horizontal



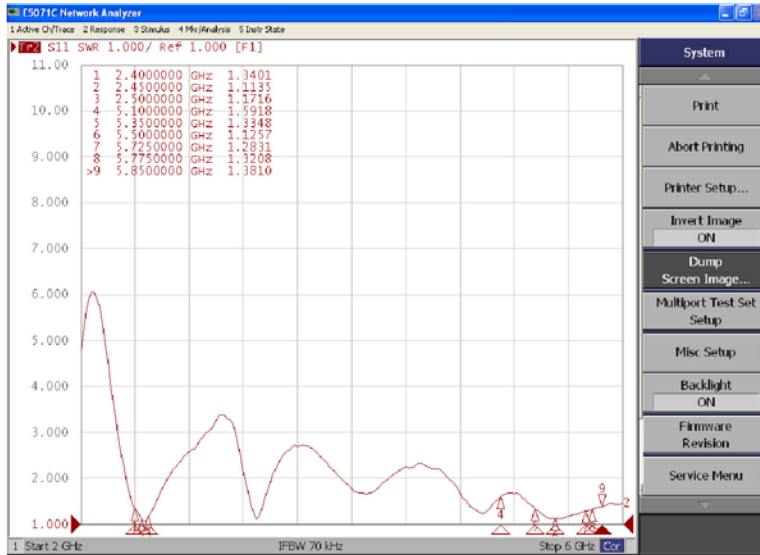
5.8GHz

Vertical

Horizontal



REV	DATE	DESCRIPTION	DRAWN
△			



**ELECTRIC**

S.W.R.: 2.4GHz ≤ 2.0  
 5 GHz ≤ 2.0  
 GAIN: 2.4GHz ≥ 5.0+0.5 dBi  
 5GHz ≤ 5.0±0.5 dBi  
 IMPEDANCE: 50 Ω

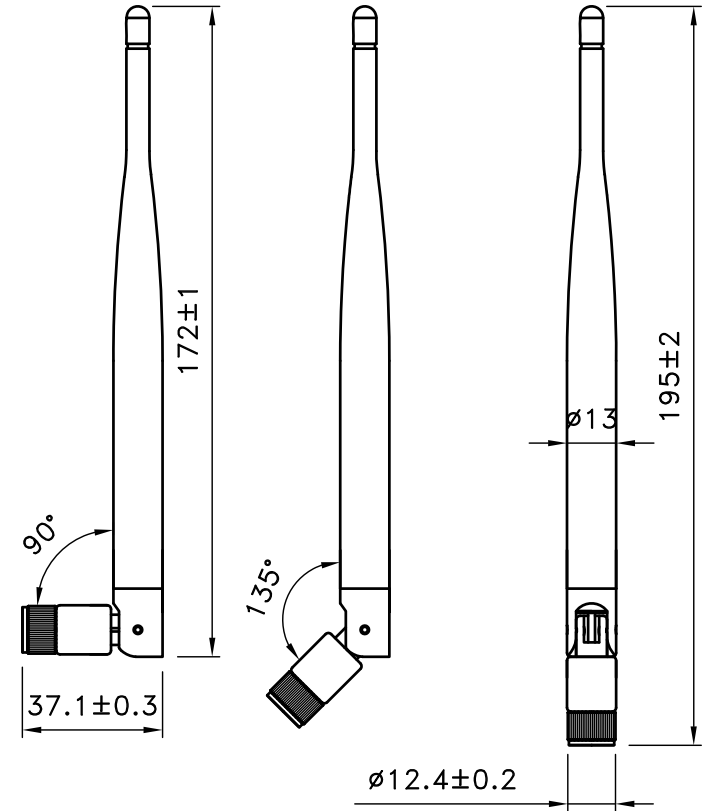
**MATERIAL**

MATERIAL OF RADIATOR: CU  
 CONNECTOR TYPE: RP SMA MALE

**ENVIRONMENTAL**

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

11	RG178U-1	ASSY	BROWN	1
10	Y0405	EVA	BLACK	1
9	D0326	PE	BLACK	1
8	N0572	BRASS	NONE	1
7	N0567	BRASS	NONE	1
6	N0562	BRASS	NONE	1
5	Y0408	TPEE	BLACK	1
4	Y0401	TPEE	BLACK	1
3	Y0407	TPEE	BLACK	1
2	Y0384	ABS	BLACK	1
1	SMA-1067-11-RP-DGB	ASSY	BLACK	1
NO	DESCRIPTION	MATERIAL	FINISH	Q'ty



NOTE	TOLERANCES	DRAWING NO. DA-DB-05RP-SMA-08	
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 CO.15 MAX.	UNLESS OTHERWISE NOTED TOLERANCES	APPROVED	DRAWN DATE 11/28/14
	X=±0.3	CHECKED	SCALE 1:2
	0.X=±0.2	DRAWN	UNIT mm
	0.XX=±0.1	ALICE	

TITLE Dual Band 5dBi Dipole Antenna	
DRAWING NO. DA-DB-05RP-SMA-08	
APPROVED	DRAWN DATE 11/28/14
CHECKED	SCALE 1:2
DRAWN	UNIT mm
ALICE	