

## 2.4GHz Dipole Antenna 3dBi RP SMA(M) DA-2450-03RP-SMA-01

### 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	$\leq 2.0:1$
Antenna Type	Dipole Sleeve
Gain	$\geq 3.0 + 0.5\text{dBi}$
Polarization	Linear
Horizontal Beam-width	360°
Impedance	50Ω
Connector	RP SMA MALE

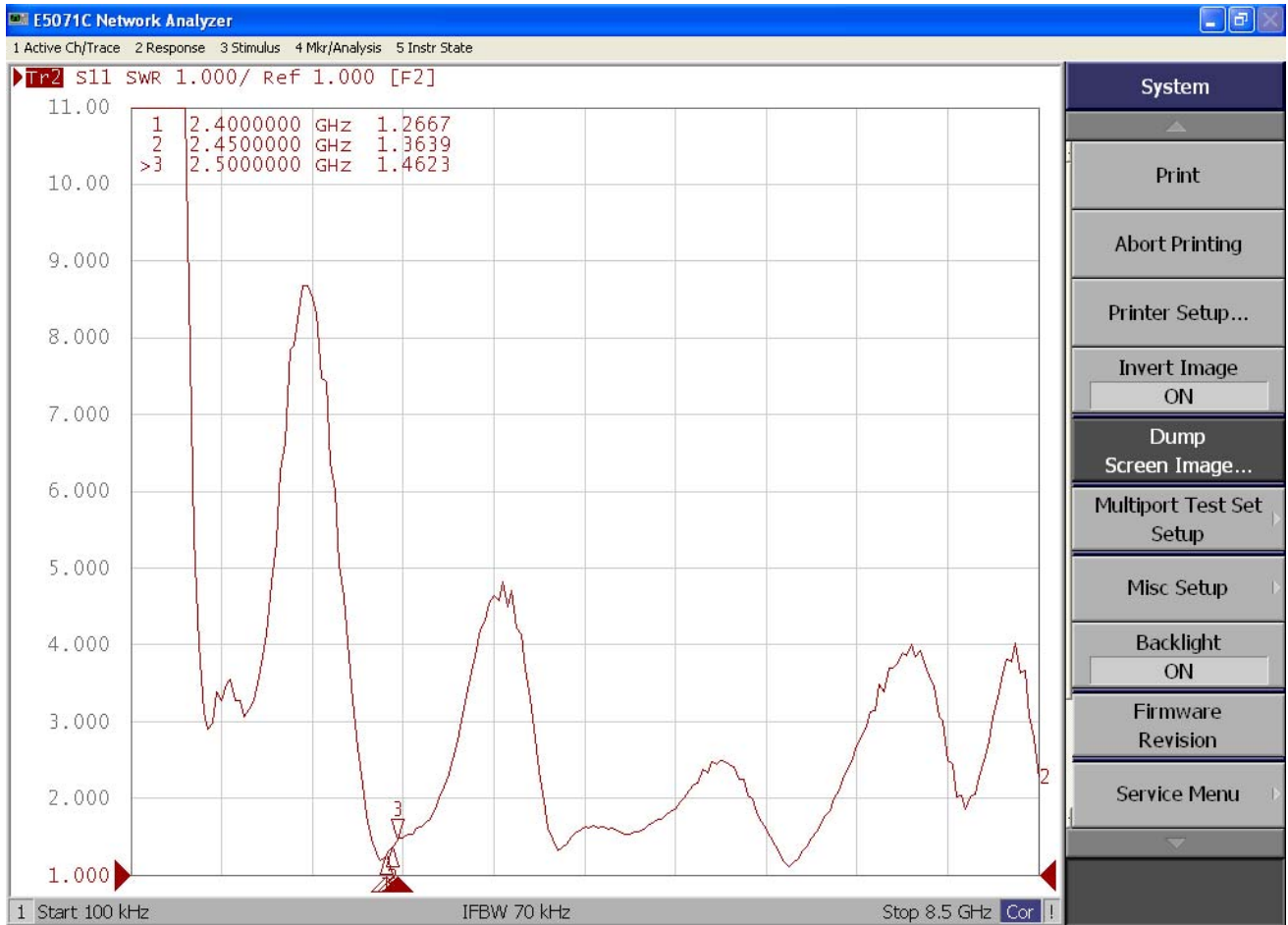
#### Mechanical Specifications

Dimension	136mm
Weight	11.5g
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.: < ±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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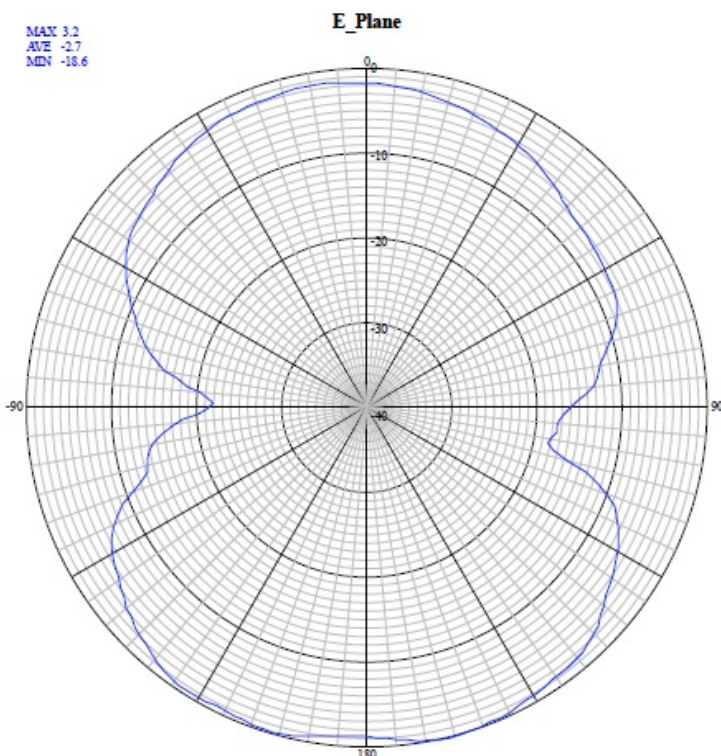
## Antenna Gain

頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	4.1 dBi	3.8 dBi
2.45 GHz	3.4 dBi	4.0 dBi
2.5 GHz	3.3 dBi	4.3 dBi

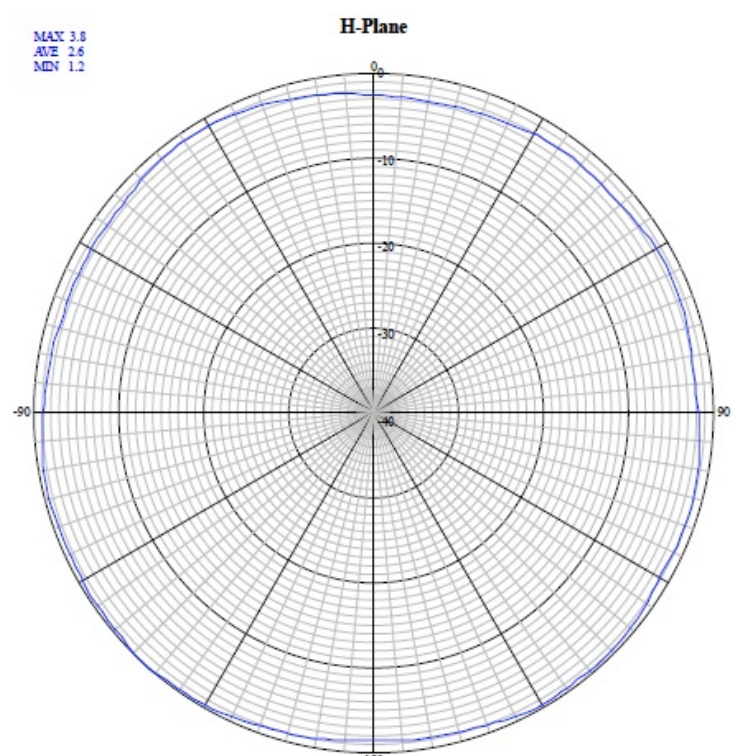
頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	122.4 deg
2.45 GHz	360.0 deg	122.6 deg
2.5 GHz	360.0 deg	102.2 deg

## Antenna Vertical & Horizontal Pattern

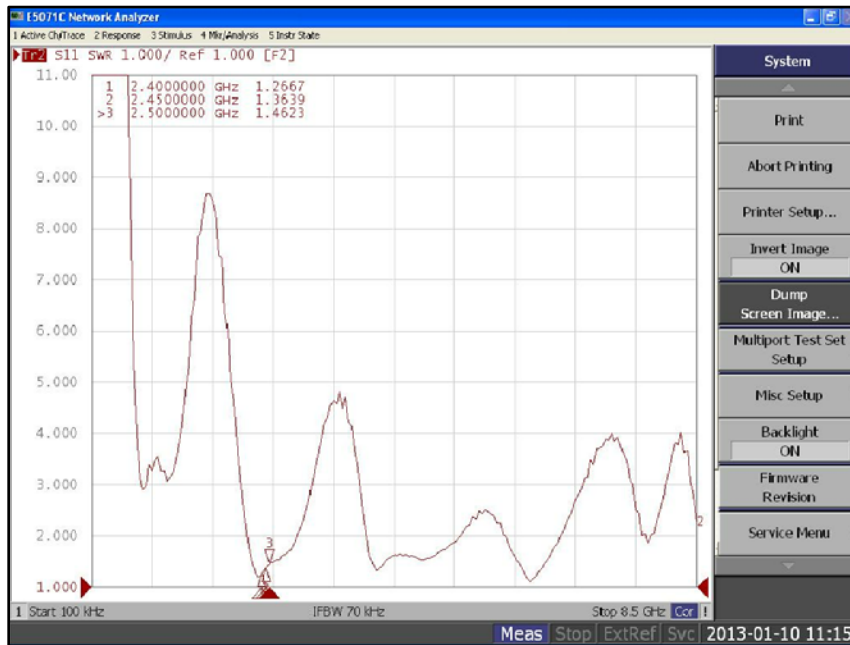
### Vertical



### Horizontal



REV	DATE	DESCRIPTION	DRAWN



ELECTRIC

S.W.R.: 2.4~2.5 GHz  $\leq$  2.0  
 GAIN:  $\geq$  3.0 dBi  
 IMPEDANCE: 50  $\Omega$

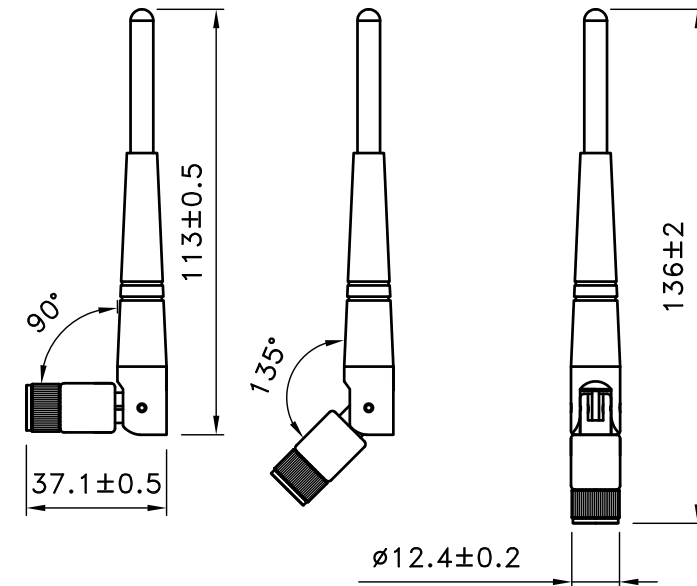
MATERIAL

MATERIAL OF RADIATOR: CU  
 CONNECTOR TYPE: RP SMA MALE

ENVIRONMENTAL

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

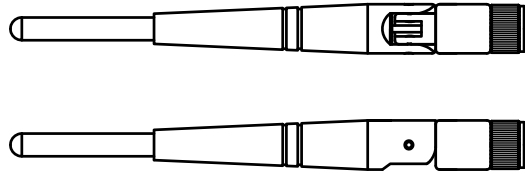
7	1.13 CABLE	ASSY	BLACK	1
6	N0543	BRASS	NONE	1
5	Y0404	ABS	BLACK	1
4	Y0408	ABS	BLACK	1
3	Y0407	ABS	BLACK	1
2	Y0384	ABS	BLACK	1
1	SMA-1067-11-RP-DGB	ASSY	BLACK	1
NO	DESCRIPTION	MATERIAL	FINISH	Q'ty



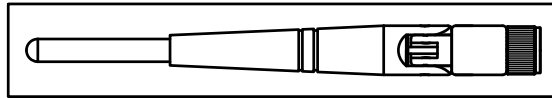
NOTE	TOLERANCES	TITLE			
1. STRIP ALL BURRS. 2. ALL DIMENSIONS ARE AFTER PLATING. 3. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN 0.1 T.I.R 4. CHAMFER 1ST & LAST THREADS 45° 5. BREAK ALL CONNERS & EDGES CO.15 MAX.	UNLESS OTHERWISE NOTED TOLERANCES  X=±0.3  0.X=±0.2  0.XX=±0.1	3dBi Dipole Antenna			
		DRAWING NO. DA-2450-03RP-SMA-01			
		APPROVED	DRAWN DATE	11/28/14	
		CHECKED	SCALE	1:2	
		DRAWN	UNIT	mm	

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TITLE 3dBi Dipole Antenna	
DRAWING NO. DA-2450-03RP-SMA-01	
APPROVED	DRAWN DATE
CHECKED	SCALE
DRAWN	UNIT
ALICE	mm

<1>



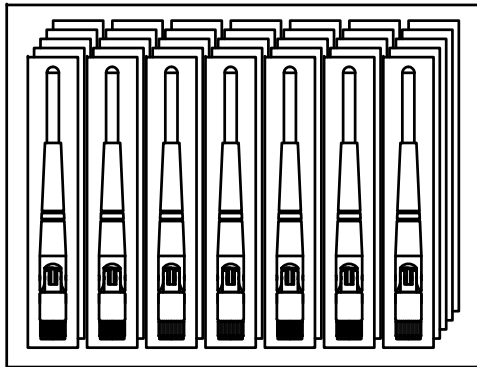
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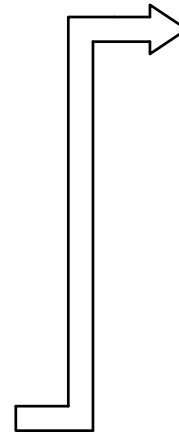
1PC antenna pack into a PE bag



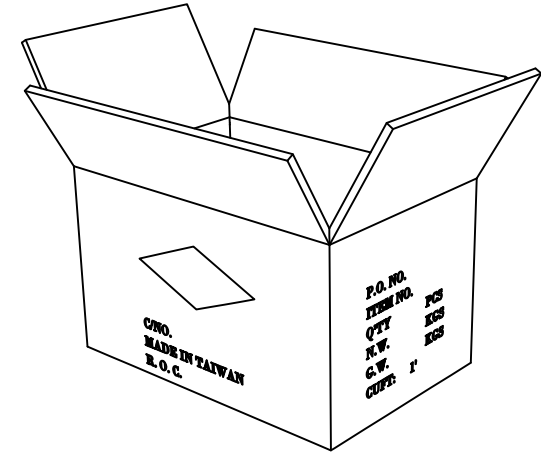
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100PCS pack into one polybag

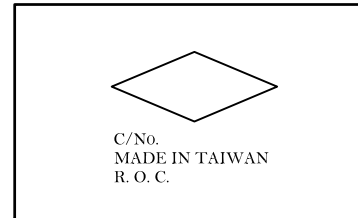


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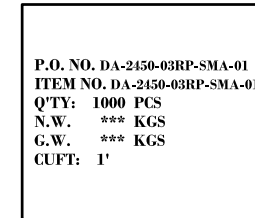


1000PCS antenna in one carton

Main mark



Side mark



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Hwa Yao Technologies co.,Ltd

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	TITLE 2.4GHz Dipole Antenna 3dBi DRAWING NO. DA-2450-03RP-SMA-01	
1. STRIP ALL BURRS.	UNLESS OTHERWISE NOTED TOLERANCES  X=±0.3  0.X=±0.2  0.XX=±0.1	APPROVED	DRAWN DATE 11/28/14
2. ALL DIMENSIONS ARE AFTER PLATING.		CHECKED	SCALE 1:1
3. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN 0.1 T.I.R		DRAWN	UNIT mm
4. CHAMFER 1ST & LAST THREADS 45°		ALICE	
5. BREAK ALL CONNERS & EDGES CO.15 MAX.			