

2.4GHz Dipole Antenna 5dBi RP SMA(M) DA-2450-05RP-SMA-02

APPLICATIONS AND FEATURES

Applications:

- 2.4GHz-2.5GHz ISM Band
- IEEE 802.11b/g/n Wireless LAN
- 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
V.S.W.R	≦2.0:1
Antenna Type	Dipole Sleeve
Gain	≥5 + 0.5dBi
Polarization	Linear
Horizontal Beam-with	360°
Impedance	50Ω
Connector	RP SMA MALE

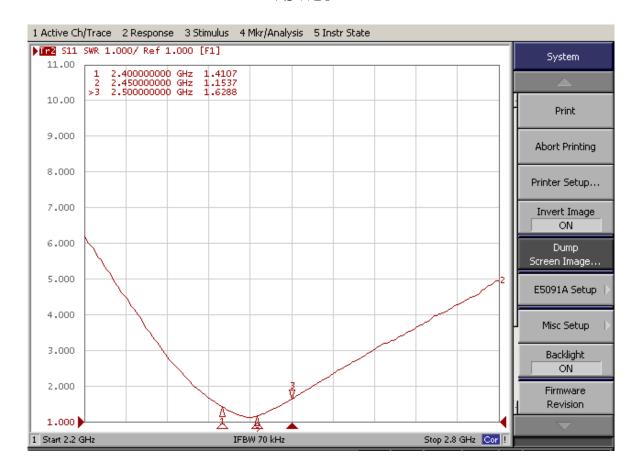
Mechanical Specifications

Dimension	195mm
Weight	20g
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	-40°C (30minutes) to	After 2 hours recovery:
Temperature	90°C (30minutes);	1. no visible damage
	24 cycles	2. Freq. Tol.: < ±5%
Damp Heat	24 hours at 60°C;	After 2 hours recovery:
	90 ~ 95% RH	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





HWayaotek No.3, Aly. 2, Ln. 279, Zhongzheng Rd., Yongkang Dist., Tainan City 710, Taiwan (R.O.C.)

TEL: +886-6-2020062 FAX: +886-6-2013882

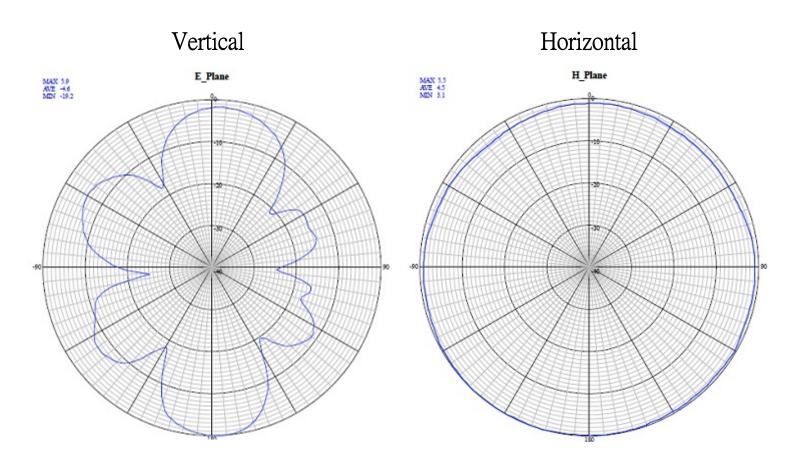
http://www.hwayaotek.com.tw Email: sales@hwayaotek.com.tw

Antenna Gain

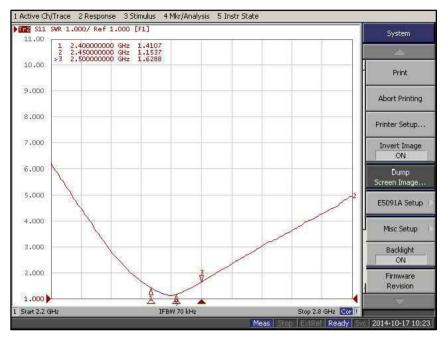
頻率	Gain H-Plane	Gain E-Plane
2.4 GHz	5.9 dBi	5.5 dBi
2.45 GHz	6.0 dBi	5.6 dBi
2.5 GHz	5.6 dBi	4.8 dBi

頻率	HPBW H-Plane	HPBW E-Plane
2.4 GHz	360.0 deg	37.6 deg
2.45 GHz	360.0 deg	34.9 deg
2.5 GHz	360.0 deg	36.0deg

Antenna Vertical & Horizontal Pattern



REV	DATE	DESCRIPTION	DRAWN
Λ			



ELECTRIC

S.W.R.: 2.4~2.5 GHz ≤ 2.0

GAIN: ≥5.0 dBi IMPEDANCE: 50 Ω

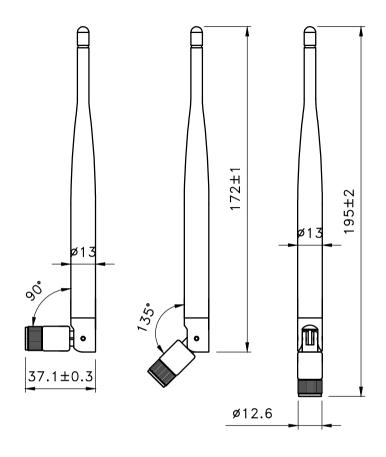
MATERIAL

MATERIAL OF RADIATOR: CU CONNECTOR TYPE: RP SMA MALE

ENVIRONMENTAL

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

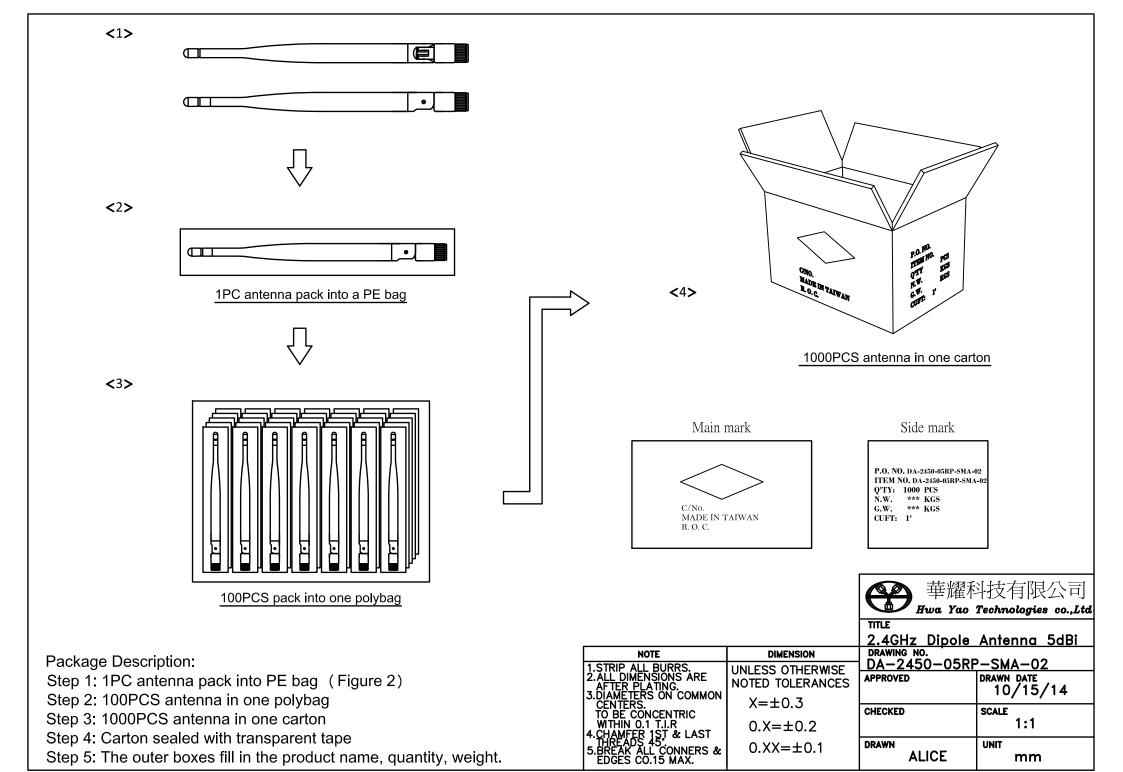
6	RG178U-1	ASSY	BROWN	1
5	N0533	BRASS	NONE	1
4	N0544	BRASS	NONE	1
3	Y0391	ABS	BLACK	1
2	Y0384	ABS	BLACK	1
1	SMA-1067-11-RP-DGB	ASSY	BLACK	1
NO	DESCRIPTION	MATERIAL	FINISH	Q'ty





NOTE	TOLERANCES
1.STRIP ALL BURRS. 2.ALL DIMENSIONS ARE AFTER PLATING. 3.DIAMETERS ON COMMON CENTERS. TO BE CONCENTRIC	UNLESS OTHERWISE NOTED TOLERANCES X=±0.3
WITHIN 0.1 T.I.R 4.CHAMFER 1ST & LAST	$0.X=\pm 0.2$
THREADS 45. 5.BREAK ALL CONNERS & EDGES CO.15 MAX.	0.XX=±0.1

華耀科技有限公司 Hwa Yao Technologies co.,Ltd		
tenna		
P-SMA-02		
DRAWN DATE		
10/27/14		
SCALE		
1:2		
UNIT		
mm		



mm