



Hwa Yao Technologies Co., Ltd
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2.4GHz Dipole Antenna 7dBi SMA RP

1. Reliability Testing
2. Specification
3. S Parameter Test Data
4. Antenna Radiation Pattern
5. Mechanical Drawing
6. MSDS & SGS Report

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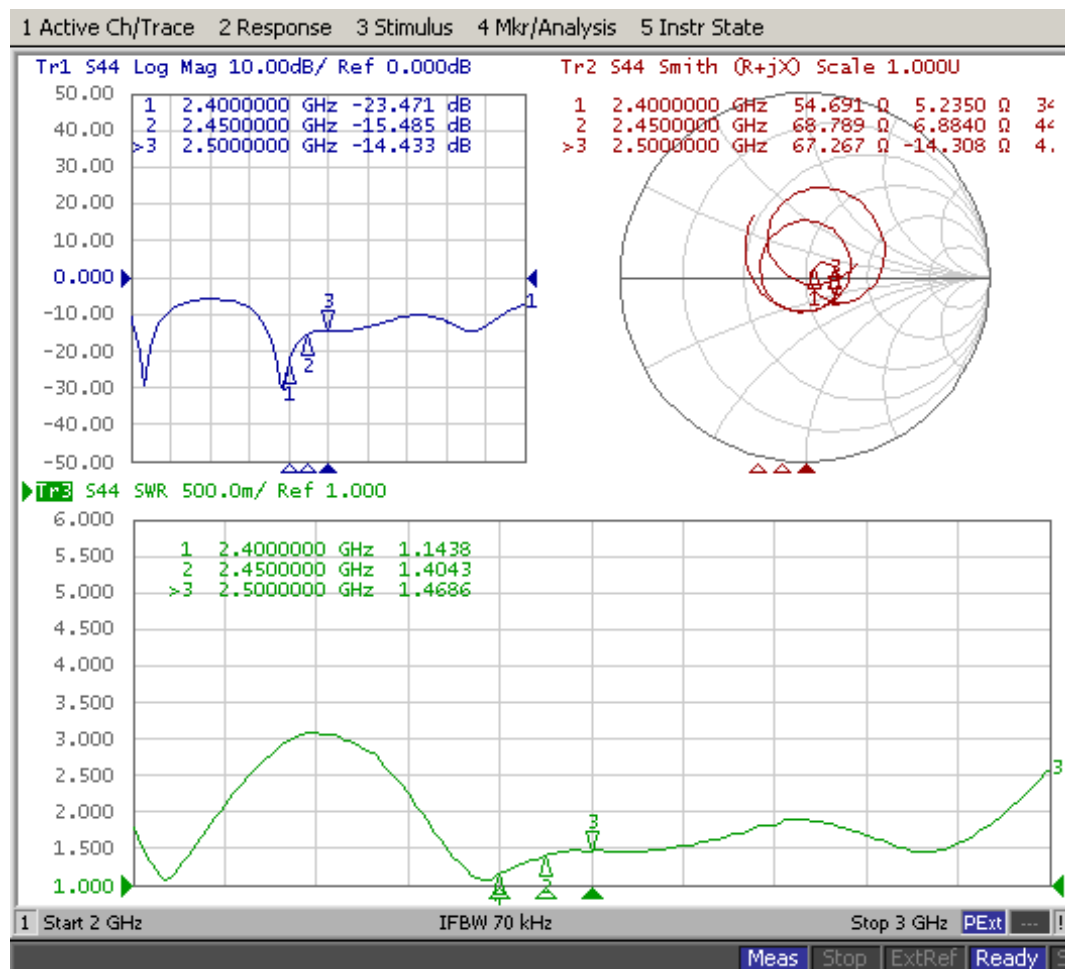
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension	Applicable methods using x5	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 48 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	48 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	48 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2. Specification

A. Electrical Characteristics	
S.W.R.	≤ 2.0 @ 2400 ~ 2500 MHz
Antenna Gain	7 dBi Mechanical Environment*)
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	50 Ohm SMA Male Reverse
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

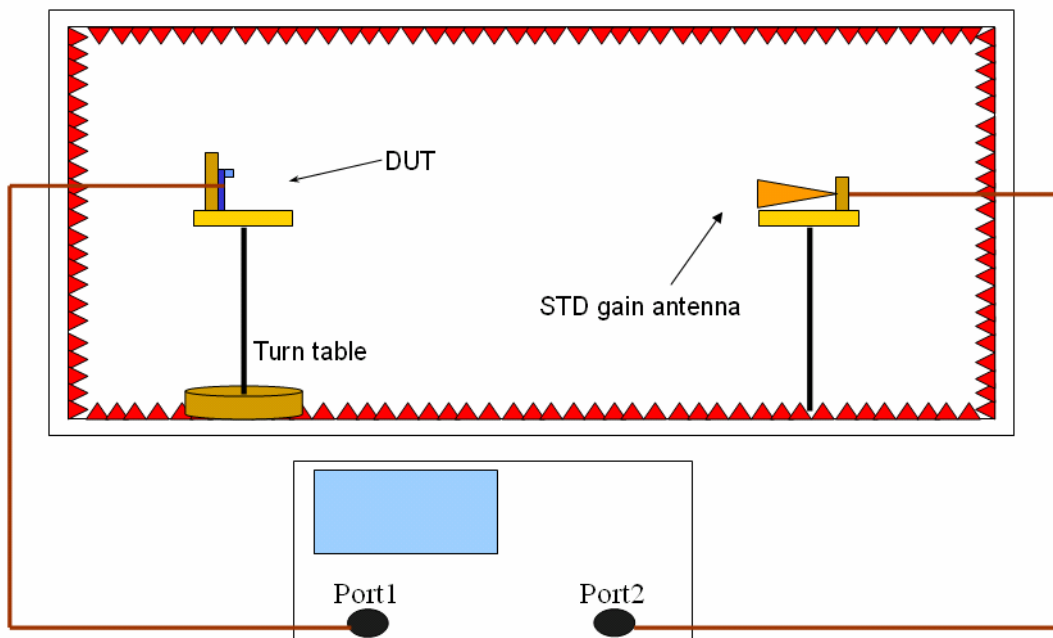
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

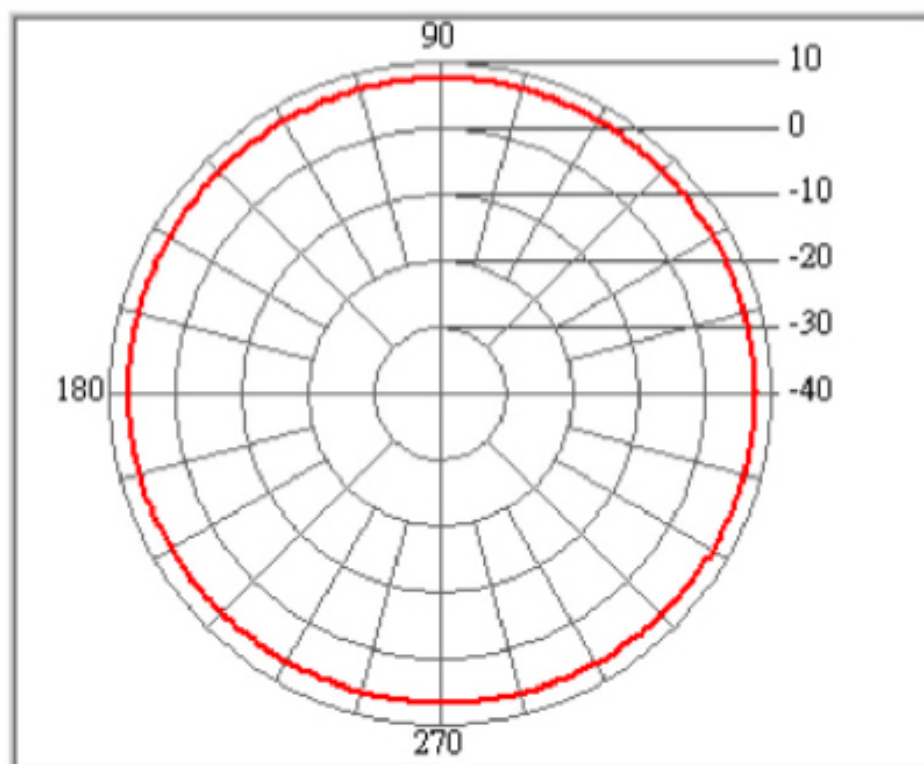
Double Ridged Horn Antenna



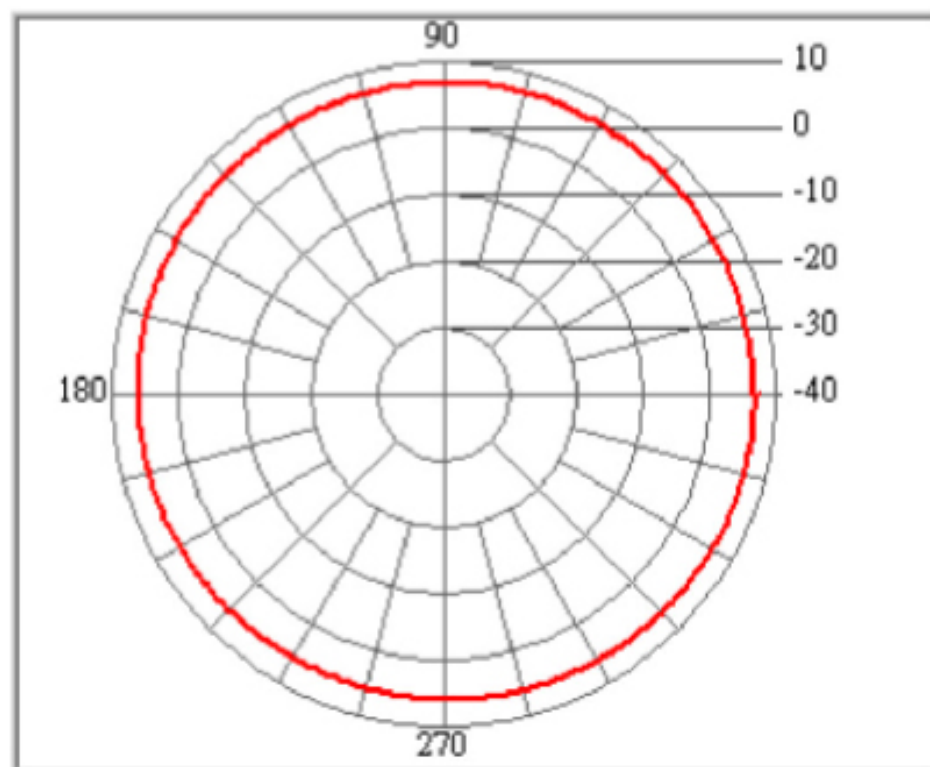
5. Mechanical Drawing

6. MSDS & SGS Report

plane field patterns



2450

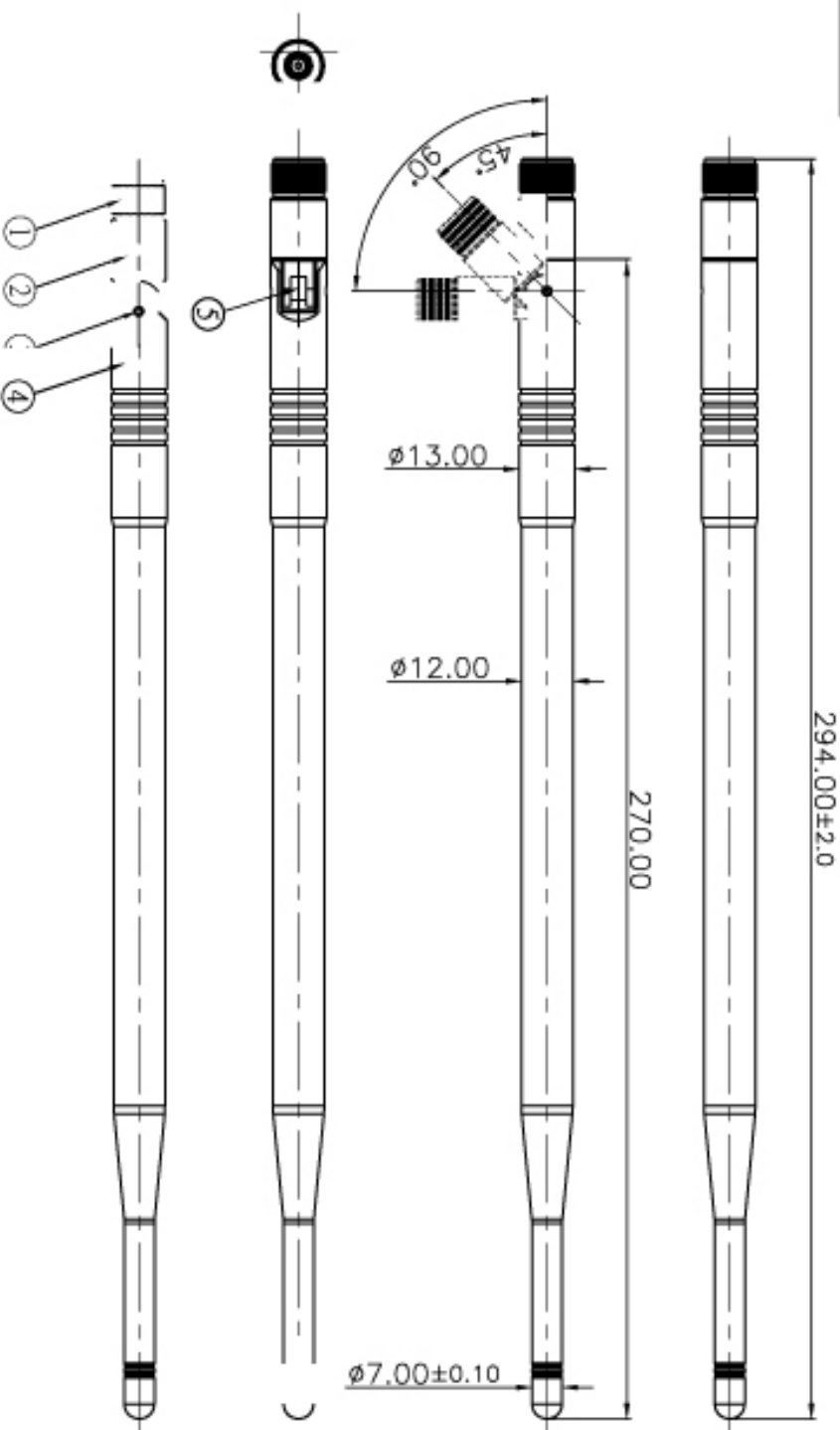


2500

RoHS

Compatible

SIGN	DATE	REVISIONS	APPROVED
A			
A			
A			



No.	Part Number	Name	Material	Finish	Qty
1	R-ANT-171	Body	ABS	Black	1
2	R-ANT-171	Rivet	Cu	11.0	2
3	R-ANT-171	Base	PC+AlF	11.0	1
4	R-ANT-171	SMA Male Revers	Cu	Electroplating	1



Hwa Yao Technologies Co., Ltd

PART NO	DA-2400-07-01	TITLE	2.4GHz Dipole Antenna 7dB
APPROVED BY	CHECKED BY	DESIGNED BY	UNITED BY
Grant	Liu Kai	Liu Guangyu	SCALE: 1/1
2007/03/22	2007/03/22	2007/03/22	REVISION: A