

DA-3438-05

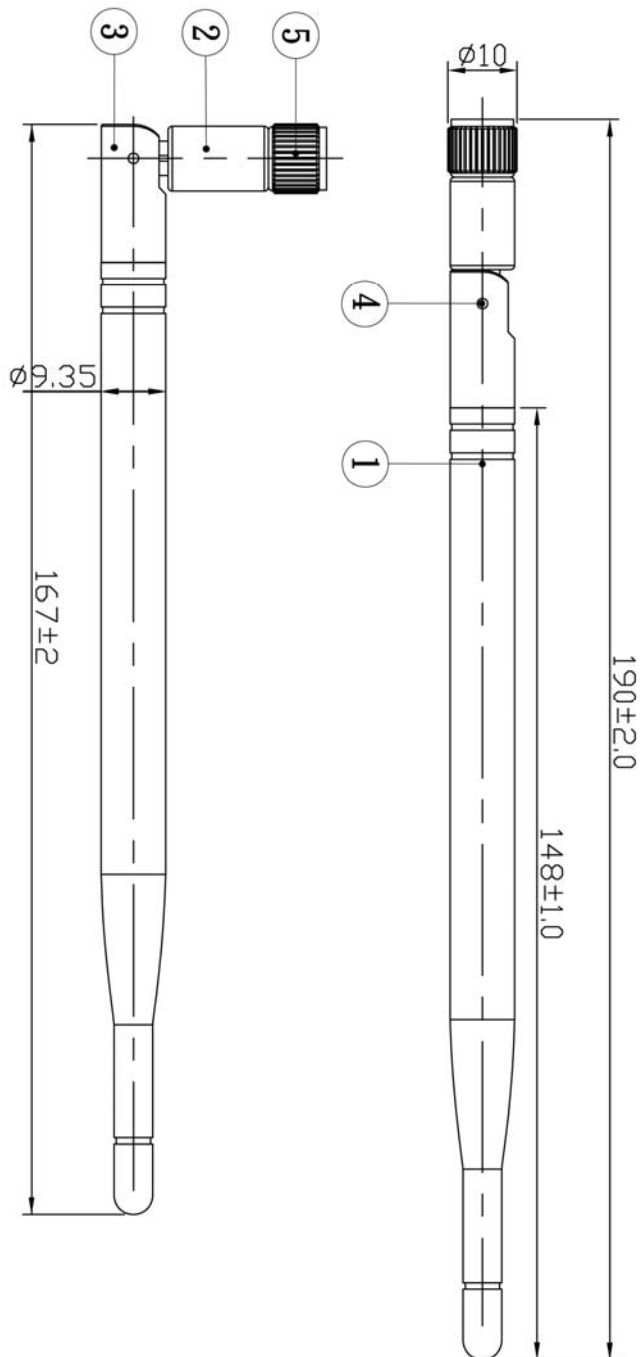
3.4-3.8GHz 5dBi Dipole Antenna



### Specification:



Technical Information	
Item No.	DA-3438-05
Frequency	3400-3800MHz
Gain	5 dBi
Polarization	Vertical
VSWR	$\leq 2.5:1$
Impedance	50 $\Omega$
Dimensions	
Size	H 190 mm
Weight	17 g
Connector	RP SMA Type Male

REV	DESCRIPTION	DRAWN	DATE



5	RP SMA MALE	1	BRASS	GOLD
4	PIN	2	BRASS	NICKEL
3	BODY3	1	ABS	BLACK
2	BODY2	1	ABS	BLACK
1	BODY1	1	TPE	BLACK
NO	Description	Qty	Material	Finish

R&D	* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES 0.X=±0.1 0.XX=±0.05	APPROVED CASH	 華城電子有限公司 RF CASTLE ELECTRONICS CO.,LTD
	SCALE 1/1	CHECKED LYDIA	
	UNIT MM	DRAWN KEVIN	TITLE 3.4-3.8GHz 5dBi Dipole Antenna DRAWING NO. DA-3438-05
			REV A

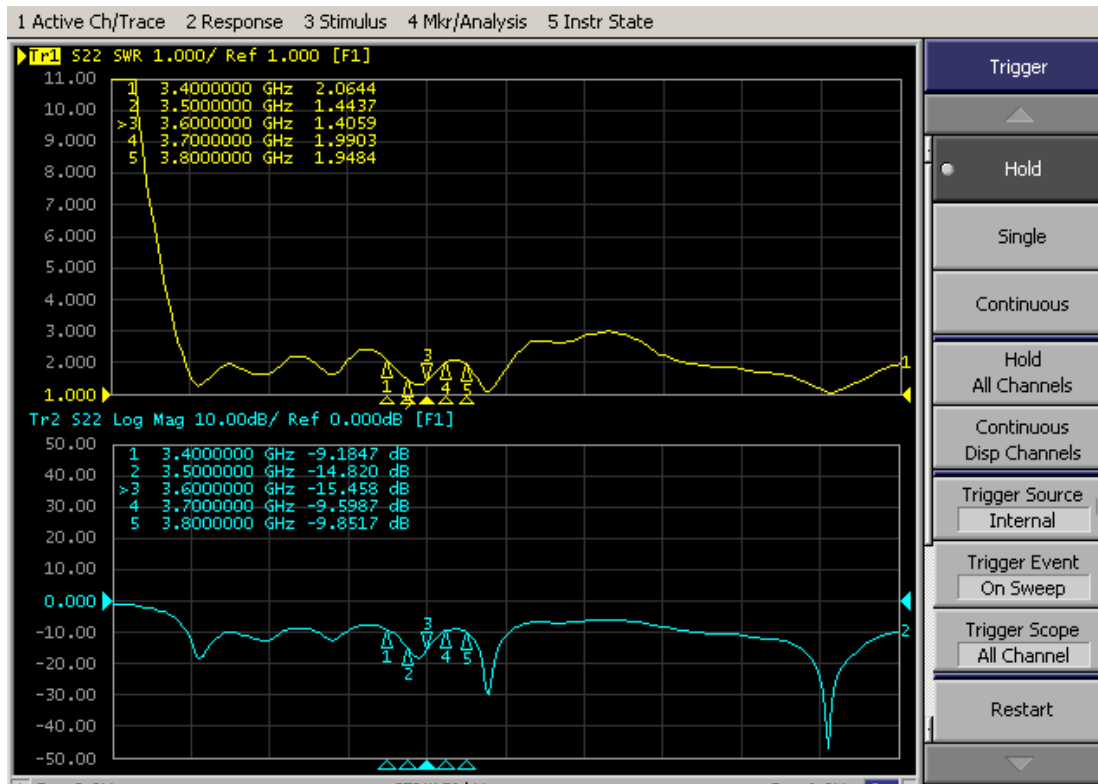
## 1. Reliability Testing

Test Item	Procedure	Requirement
<b>1. Visual inspection and Dimension Check</b>	Applicable methods using x5 magnification	follow specification
<b>2. Rapid Changing of Temperature</b>	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
<b>3. Damp Heat</b>	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
<b>4. Endurance</b>	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

## 2. Specification

A. Electrical Characteristics	
S.W.R.	3400-3800MHz: <= 2.5
Antenna Gain	5.0 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA
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

