

DA-2527-05

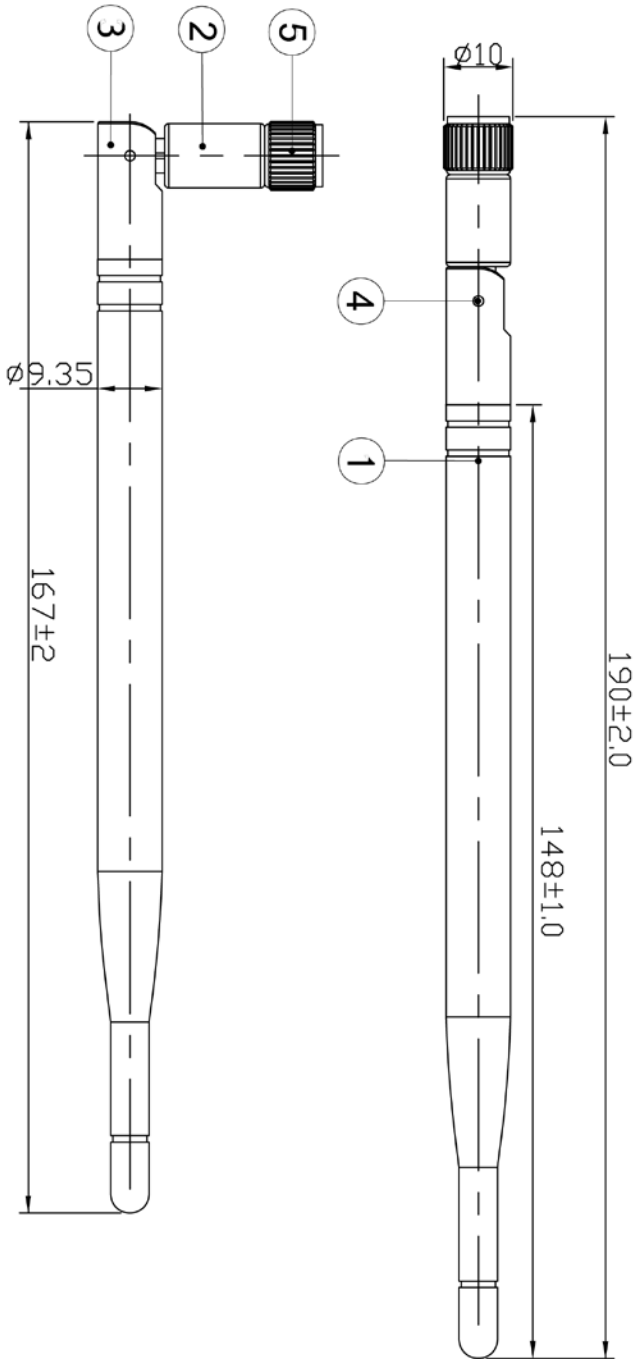
2.5-2.7GHz 5dBi Dipole Antenna





Specification:

Technical Information	
Item No.	DA-2527-05
Frequency	2500-2700MHz
Gain	5dBi
Polarization	Vertical
VSWR	$\leq 2.5:1$
Impedance	50 $\Omega$
Dimensions	
Size	H 40 mm
Weight	18 g
Connector	RP SMA Type Male

REV	DESCRIPTION	DRAWN	DATE



NO	Description	Qty	Material	Finish
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

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	UNIT	
DRAWN		DRAWN DATE		CHECKED	
KEVIN		12/05/11		LYDIA	
TITLE					REV
2.5-2.7GHz 5dBi Dipole Antenna					A
DRAWING NO. DA-2527-05					

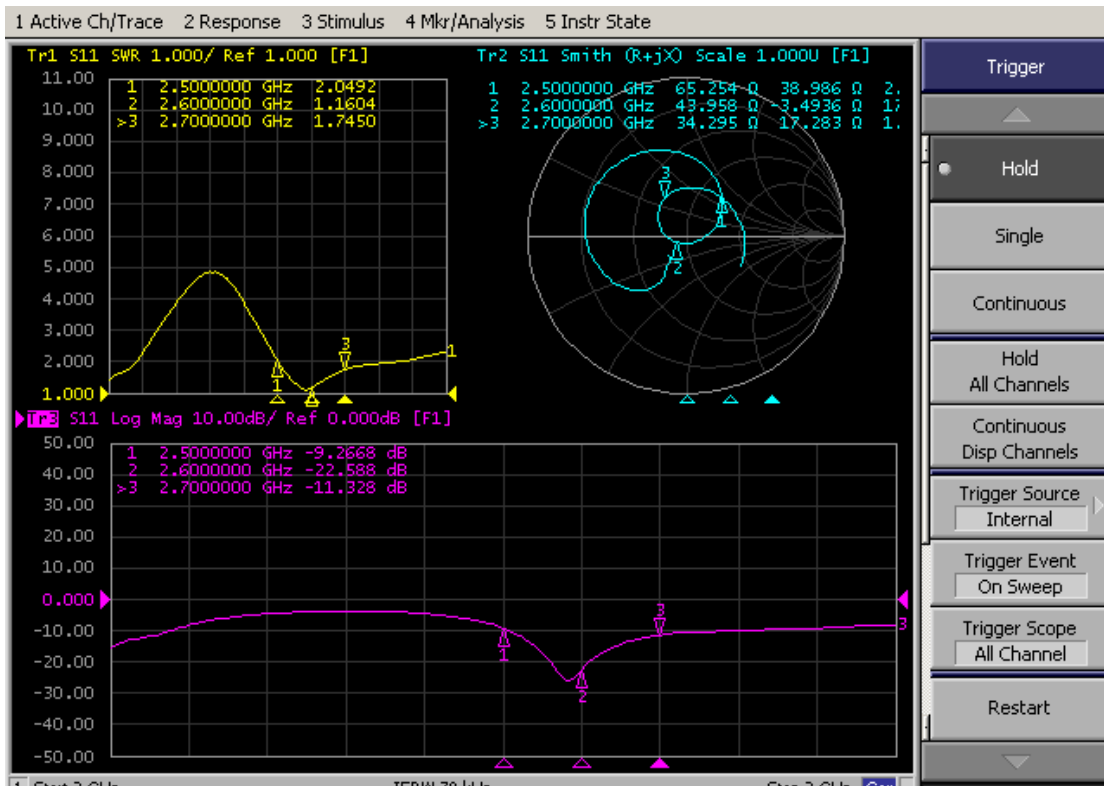
## 1. Reliability Testing

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

<b>A. Electrical Characteristics</b>	
<b>S.W.R.</b>	<b>2500-2700MHz: &lt;= 2.5</b>
<b>Antenna Gain</b>	<b>5.0 dBi</b>
<b>Impedance</b>	<b>50 Ohm</b>
<b>B. Material</b>	
<b>Material of Radiator</b>	<b>Cu (Plated)</b>
<b>Connector Type</b>	<b>SMA</b>
<b>C. Environmental</b>	
<b>Operation Temperature</b>	<b>- 30 °C ~ + 85 °C</b>
<b>Storage Temperature</b>	<b>-30 °C ~+ 85 °C</b>

### 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

