

## Specification:

## GSM-9018-03

900MHz/1800MHz GSM 雙頻天線

Technical Information	
Item No.	GSM-9018-03
Frequency	824-960MHz 1710-2170MHz
Gain	3dBi
Polarization	Vertical
VSWR	≤ 4.0:1
Impedance	50 Ω
Dimensions	
Size	H 194 mm
Weight	27 g
Connector	RP SMA Type Male



## 2.Specification

## 1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. 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%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

## 3.S Parameter Test data



A. Electrical Characteristics	
S.W.R.	824-960MHz: ≤ 4.0 1710-2170MHz: ≤ 4.0
Antenna Gain	3.0 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

## 4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

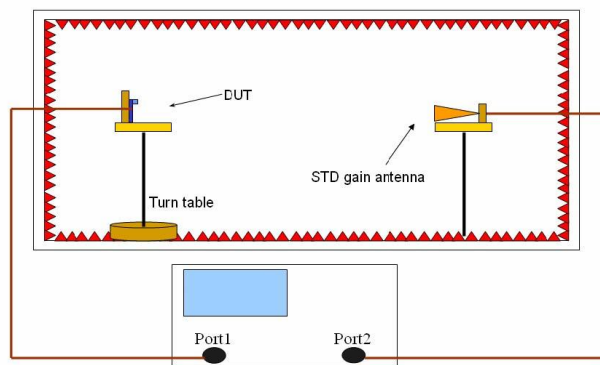
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

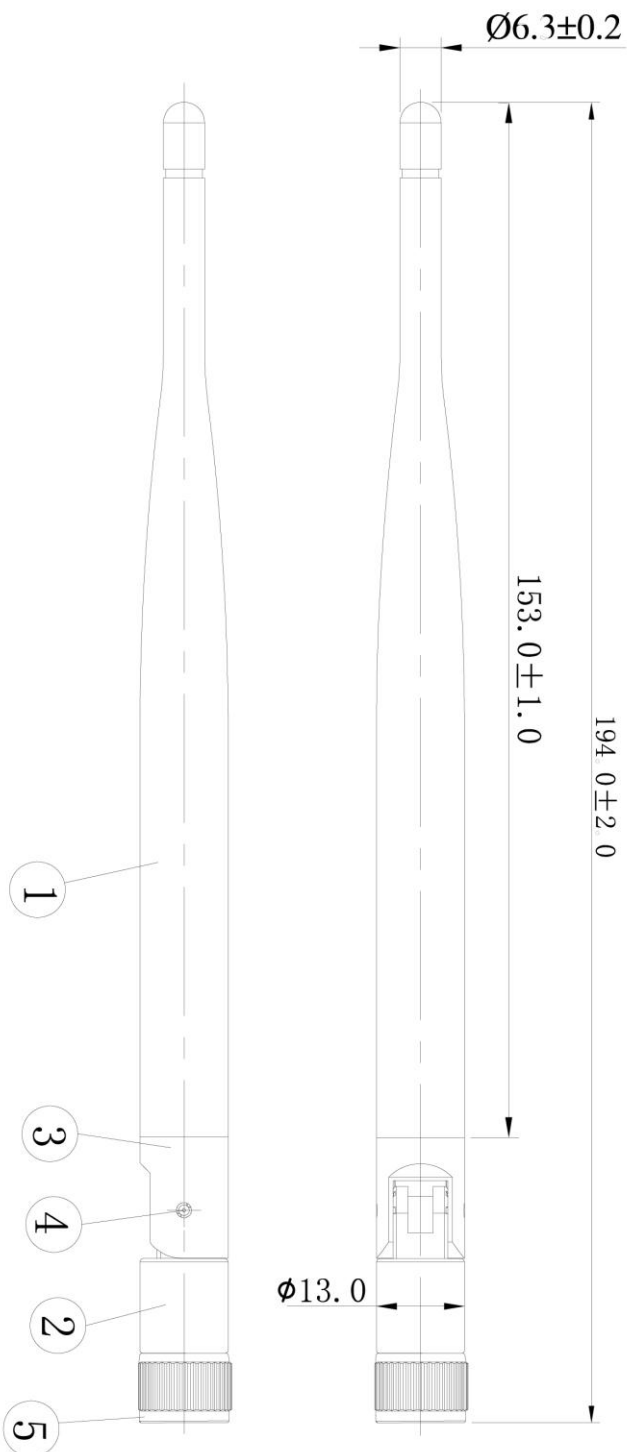
Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

## Double Ridged Horn Antenna




REV	DESCRIPTION	DRAWN	DATE



5	RP-SMA(M)	1	CU	Copper plated
4	PIN	1	ABS	BLACK
3	CONNECTOR	1	ABS	BLACK
2	BODY2	1	ABS	BLACK
1	BODY1	1	TPE	BLACK
NO	Description	Qty	Material	Finish

R&D		* MAJOR DIMENSION		APPROVED	
		UNLESS OTHERWISE NOTED TOLERANCES 0.X = ±0.1 0.XX = ±0.05		CHECKED	CASH
				DRAWN	LYDIA
SCALE		3/1	UNIT	MM	DRAWN DATE 12/05/11
TITLE		GSM Antenna		DRAWING NO. GSM-9018-03	
				REV A	