

GSM-9018-04

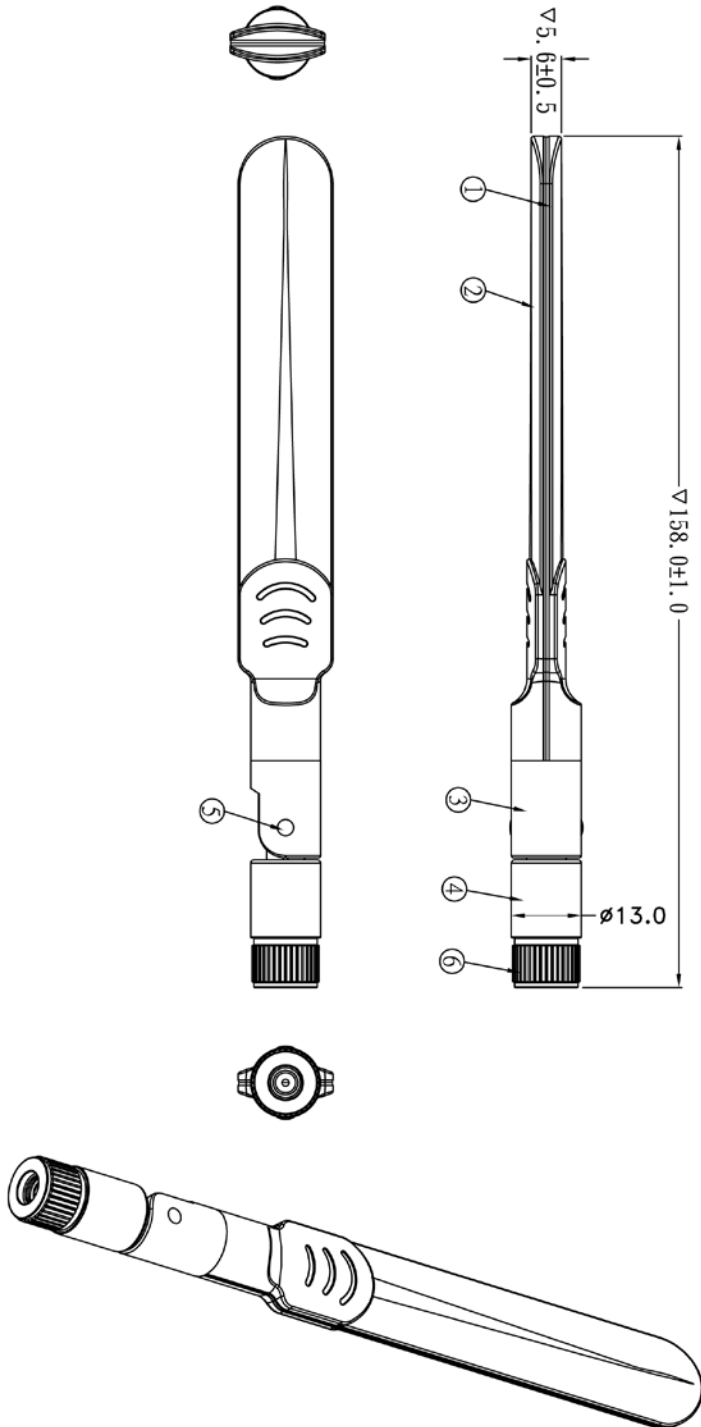
900MHz/1800MHz GSM 雙頻天線-4dBi



Specification:

Technical Information	
Item No.	GSM-9018-04
Frequency	824-960MHz 1710-2170MHz
Gain	4 dBi
Polarization	Vertical
VSWR	$\leq 4.0:1$
Impedance	50 $\Omega$
Dimensions	
Size	H 158 mm
Weight	20 g
Connector	RP SMA Type Male

REV	DESCRIPTION	DRAWN	DATE



NO	Description	Qty	Material	Finish
6	RP-SMA(M)	1	CU	Copper plated
5	PIN	1	ABS	BLACK
4	CONNECTOR	1	ABS	BLACK
3	BODY3	1	ABS	BLACK
2	BODY2	1	ABS	BLACK
1	BODY1	1	ABS	BLACK



* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES 0.X=±0.1 0.XX=±0.05			
SCALE	3/1	UNIT	MM
APPROVED	CASH	CHECKED	LYDIA
DRAWN	KEVIN	DRAWN DATE	12/05/11

TITLE	900MHz/1800MHz 4dB omnidirectional Antenna
DRAWING NO.	GSM-9018-04
REV	A

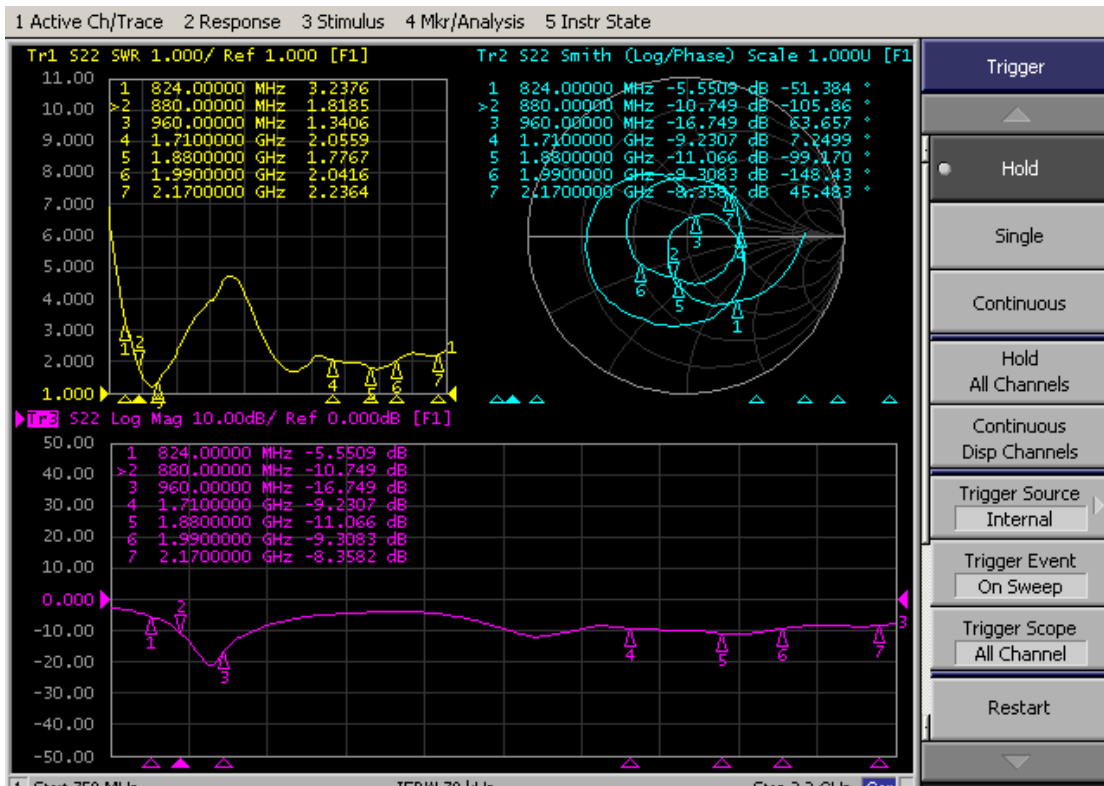
## 1. Reliability Testing

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	
<b>S.W.R.</b>	824-960MHz: <= 4.0 1710-2170MHz: <= 4.0
<b>Antenna Gain</b>	4.0 dBi
<b>Impedance</b>	50 Ohm
B. Material	
<b>Material of Radiator</b>	Cu (Plated)
<b>Connector Type</b>	SMA
C. Environmental	
<b>Operation Temperature</b>	- 30 °C ~ + 85 °C
<b>Storage Temperature</b>	-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

