

### Specification:

### GSM-9018-02-MB1

900MHz/1800MHz GSM 圓形基座天線-2dBi

Technical Information	
Item No.	GSM-9018-02-MB1
Frequency	824-960MHz 1710-2170MHz
Gain	2 dBi
Polarization	Vertical
VSWR	≤4.0:1
Impedance	50 Ω
Dimensions	
Size	H 149 mm
Cable length	RG174 ,L=1.5M
Weight	35 g
Connector	RP SMA Type Male



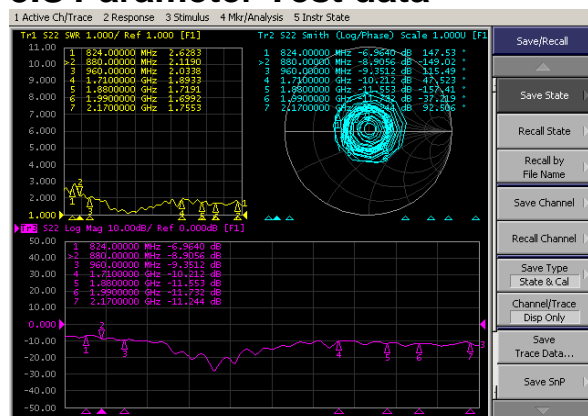
### 1. Reliability Testing

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%

### 2.Specification

A. Electrical Characteristics	
S.W.R.	824-960MHz: ≤ 4.0 1710-2170MHz: ≤ 4.0
Antenna Gain	2.0 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

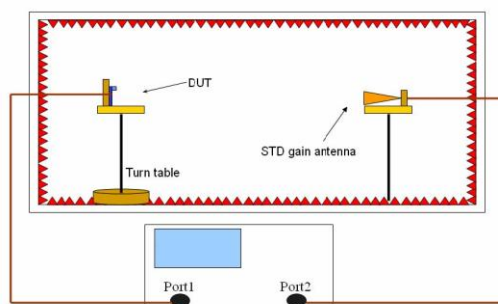
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

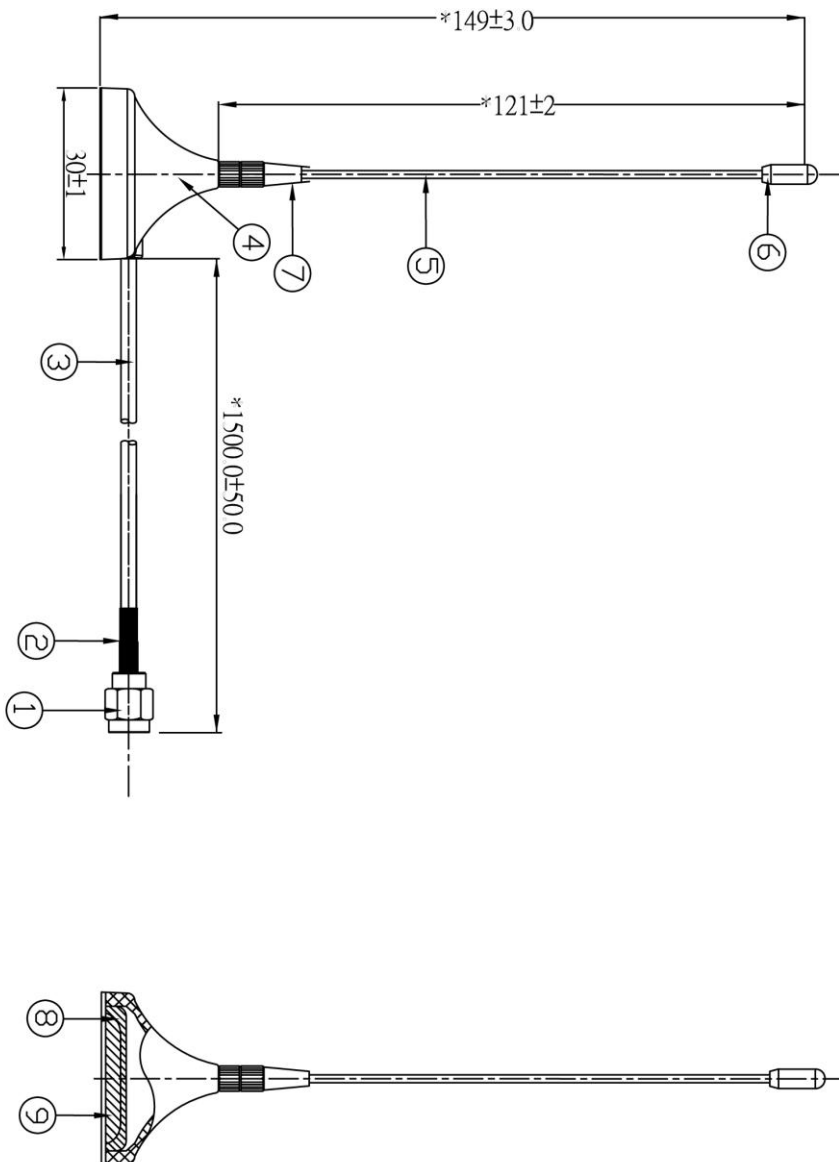
Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



REV	DESCRIPTION	DRAWN	DATE



9	MAGNET	1	FE	ZINC PLATED
8	IRON	1	FE	NICKEL
7	CONNECTOR	1	CU	BLACK
6	BODY3	1	PVC	BLACK
5	BODY2	1	FE	電鍍層
4	BODY1	1	ABS	BLACK
3	CABLE	1	RG174	BLACK
2	Heat Shrink Tubing	1	PE	BLACK
1	RP-SMA(M)	1	CU	Copper plated
NO	Description	Qty	Material	Finish

R&D		* MAJOR DIMENSION		APPROVED	
UNLESS OTHERWISE NOTED TOLERANCES 0.X=±0.1 0.XX=±0.05		CHECKED LYDIA		CASH	
DRAWN KEVIN		DRAWN DATE 12/05/11		TITLE 900MHz/1800MHz 2dB1 with magnetic Base GSM Antenna	
SCALE 1/1		UNIT MM		DRAWING NO. GSM-9018-02-MB1	
REV A					