

GSM-9018-02-MB1

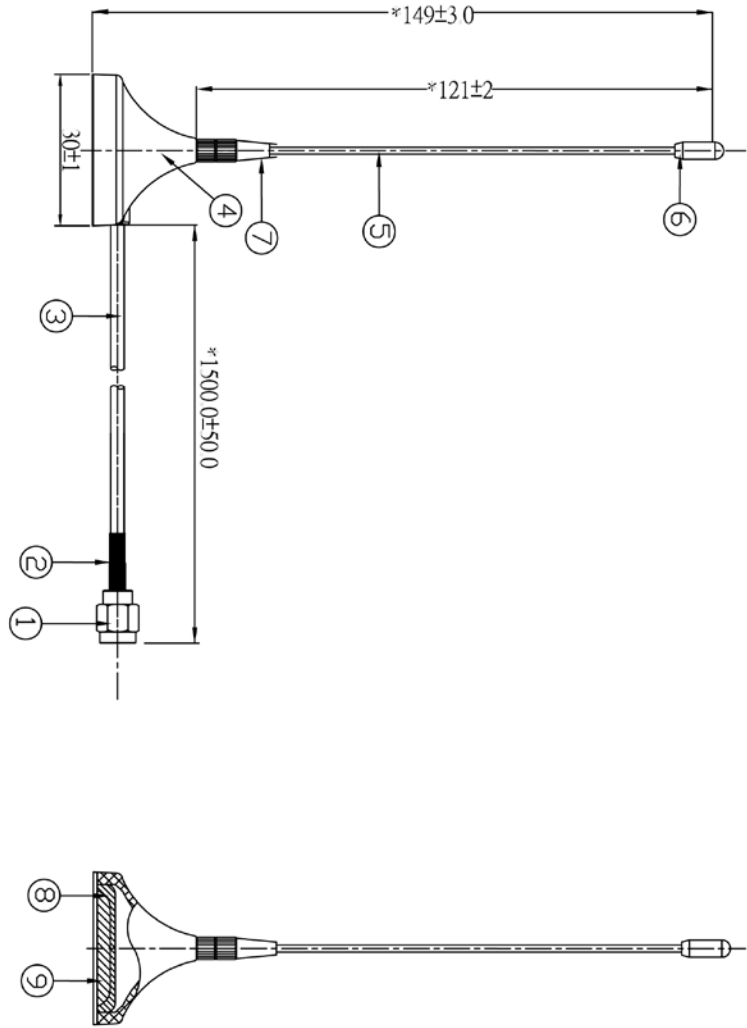
900MHz/1800MHz GSM 圓形基座天線-2dBi



Specification:

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

REV	DESCRIPTION	DRAWN	DATE



NO	Description	Qty	Material	Finish
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
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

R&D

* MAJOR DIMENSION
UNLESS OTHERWISE
NOTED TOLERANCES
0.X = ±0.1
0.XX = ±0.05

APPROVED	CHECKED	DRAWN	DRAWN DATE
CASH	LYDIA	KEVIN	12/05/11

RF Castle 華城電子有限公司
RF CASTLE ELECTRONICS CO.,LTD

TITLE 900MHz/1800MHz 2dB with magnetic Base GSM Antenna
DRAWING NO. GSM-9018-02-MB1

REV	A

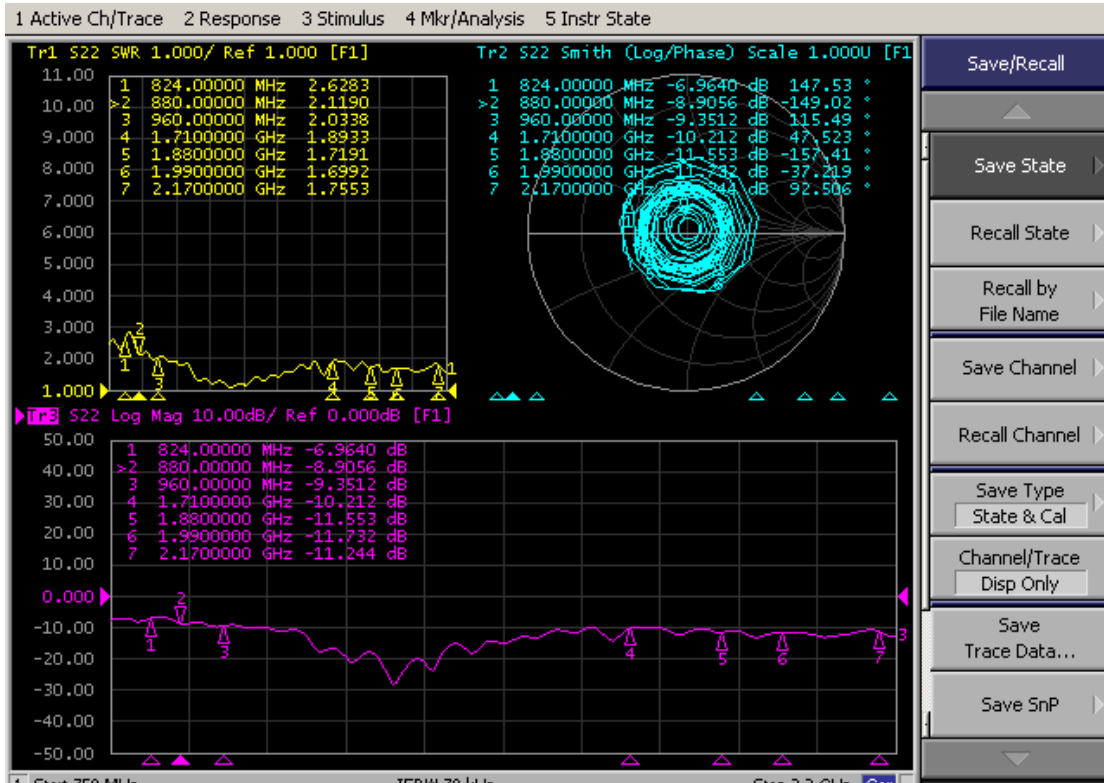
1. Reliability Testing

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

