

Specification:

Technical Information	
Item No.	GSM-9018-02-MB
Frequency	824-960MHz 1710-2170MHz
Gain	2 dBi
Polarization	Vertical
VSWR	≤4.0:1
Impedance	50 Ω
Dimensions	
Size	H 105 mm
Cable length	RG174 ,L=1.5M
Weight	34 g
Connector	RP SMA Type Male

GSM-9018-02-MB

900MHz/1800MHz GSM 圓形基座天線



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%

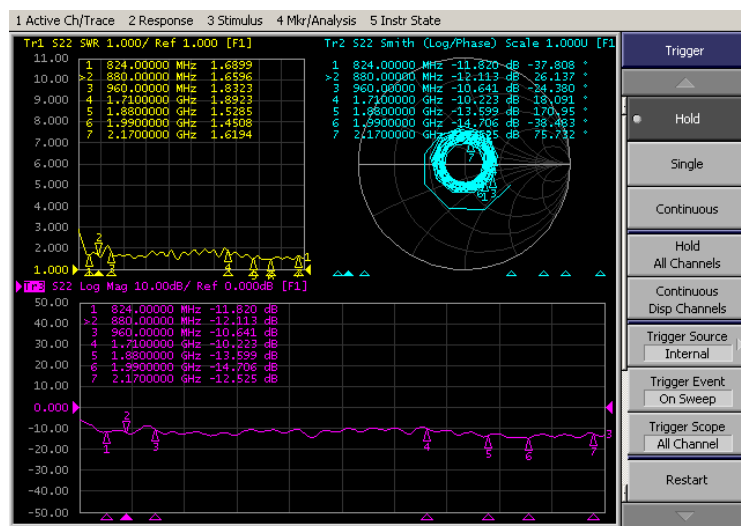
2.Specification

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

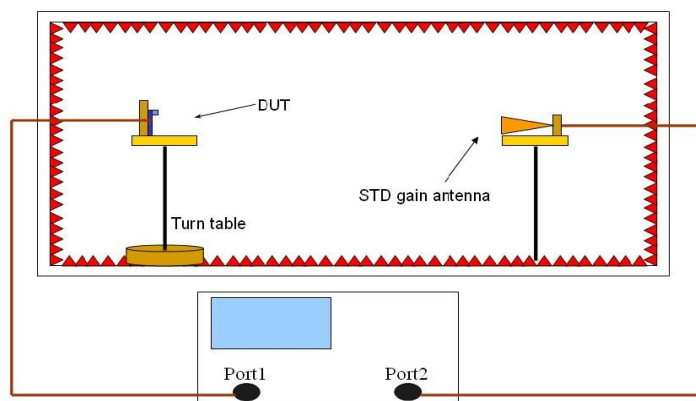
4. Antenna Radiation Pattern

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

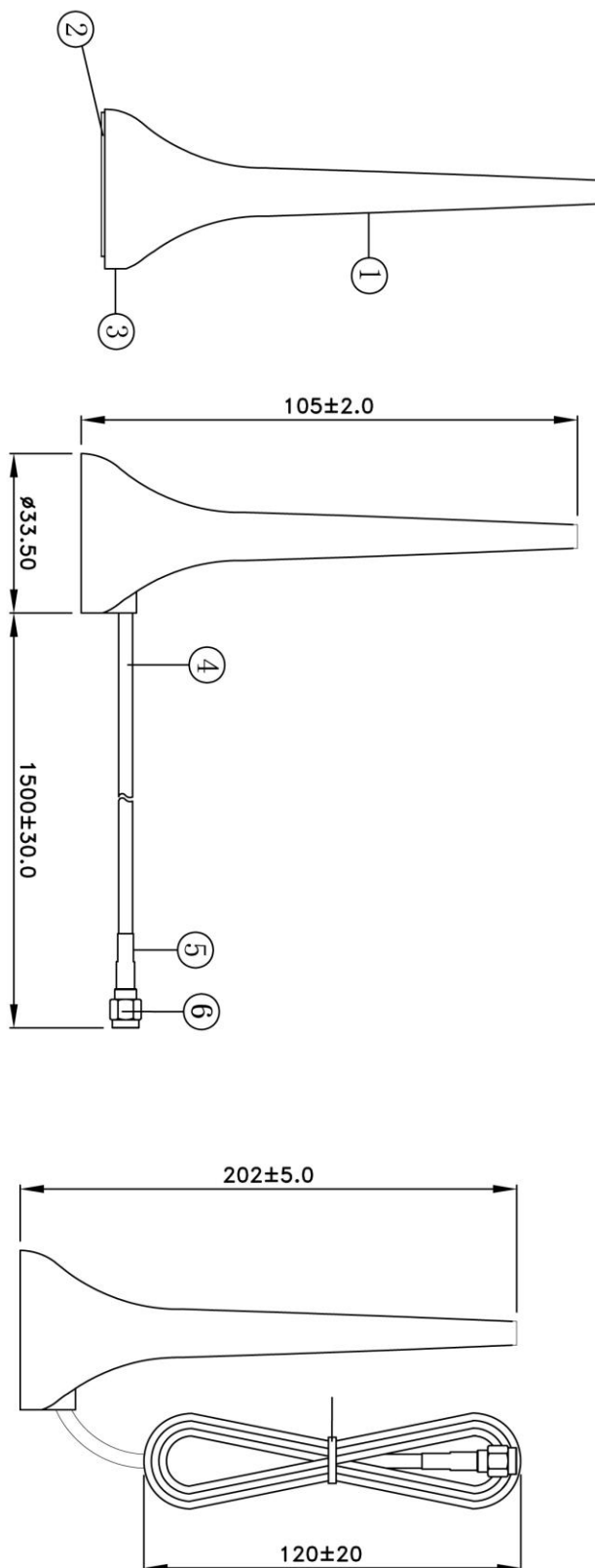
3.S Parameter Test data



Double Ridged Horn Antenna



REV	DESCRIPTION	DRAWN	DATE



6	RP SMA MALE	1	BRASS	GOLD
5	Heat Shrink Tubing	1	PVC	BLACK
4	CABLE	1	RG174	BLACK
3	BODY2	1	ABS	BLACK
2	FOAM	1	EVA	GOLD
1	BODY	1	TPE	BLACK
NO	Description	Qty	Material	Finish

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