

Specification:

Technical Information	
Item No.	GSM-9018-01-RA
Frequency	824-960MHz 1710-2170MHz
Gain	1dBi
Polarization	Vertical
VSWR	≤ 4.0:1
Impedance	50 Ω
Dimensions	
Size	H 40 mm
Weight	5.8 g
Connector	SMA Type Male

GSM-9018-01-RA

900MHz/1800MHz GSM 雙頻天線-1dBi



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℃ (30minutes) to 90℃ (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60℃; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90℃	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

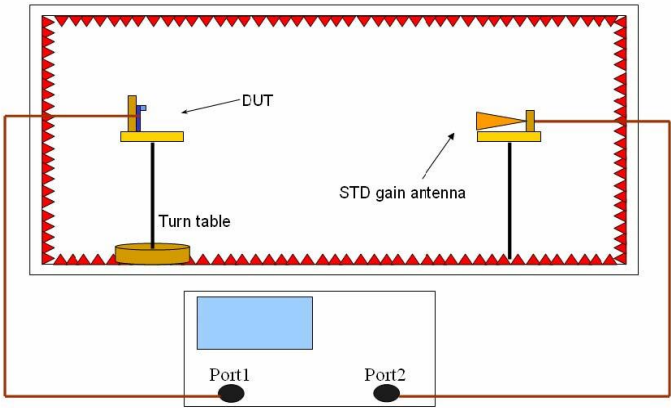
2.Specification

A. Electrical Characteristics	
S.W.R.	824-960MHz: <= 4.0 1710-2170MHz: <= 4.0
Antenna Gain	1.0 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA
C. Environmental	
Operation Temperature	- 30 ℃ ~ + 85 ℃
Storage Temperature	-30 ℃ ~+ 85 ℃

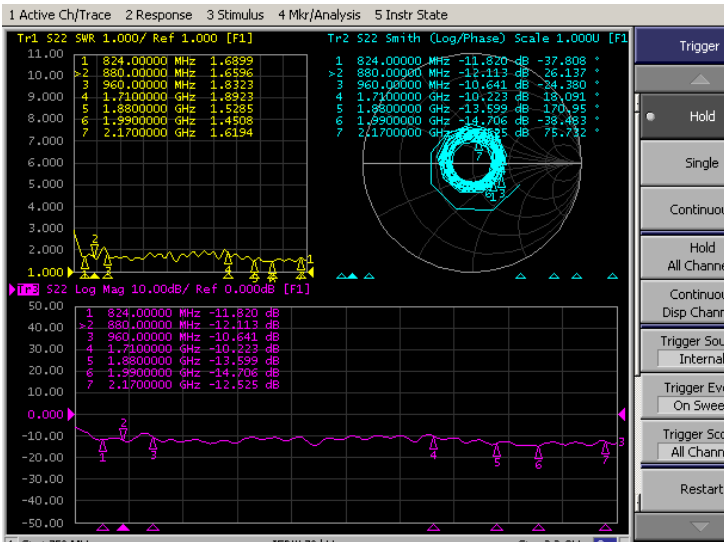
4. Antenna Radiation Pattern

Testing Equipment Specification:  
 Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m  
 Quite Zone: 600mm @1 GHz  
 Isolation: >100dB @ 1 MHz ~ 10 GHz  
 Testing Equipment: Agilent 5071B  
 Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

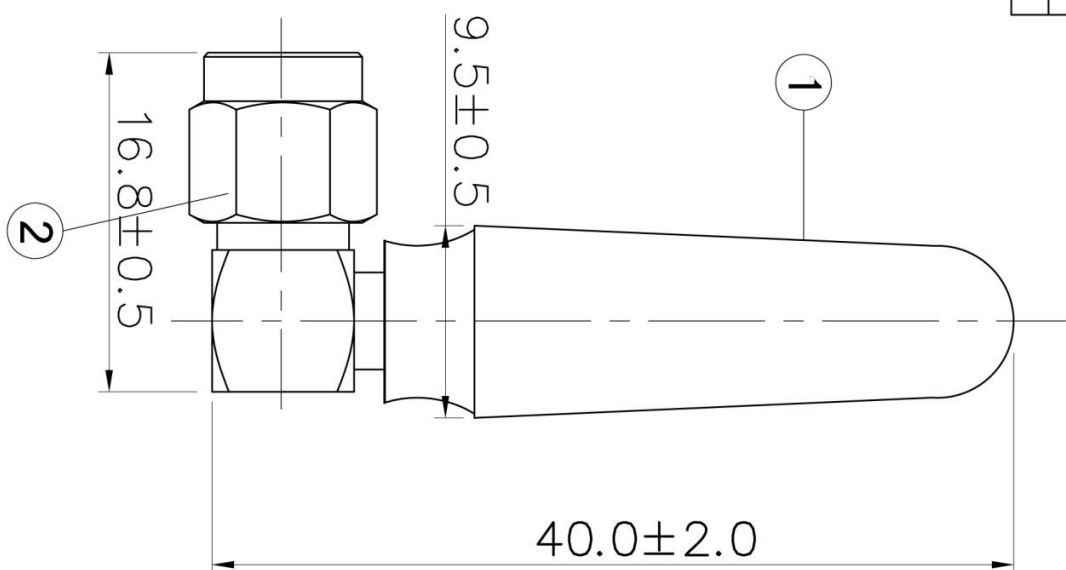
Double Ridged HornAntenna



3.S Parameter Test data



REV	DESCRIPTION	DRAWN	DATE



					R&D		* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES 0.X=±0.1 0.XX=±0.05		APPROVED CASH		RF Castle 華城電子有限公司 RF CASTLE ELECTRONICS CO.,LTD	
2	SMA MALE	1	BRASS	GOLD					CHECKED LYDIA			
1	BODY	1	PC+ABS	BLACK					DRAWN KEVIN		TITLE 900MHz/1800MHz 1dbi GSM Antenna	
NO	Description	Qty	Material	Finish	SCALE		1/1 UNIT MM		DRAWN DATE 12/05/11		DRAWING NO. GSM-9018-01-RA	
					R&D		華城電子 2011.12.05				REV A	