

GSM 800-900, 1800-1900 MHz 3dBi Antenna

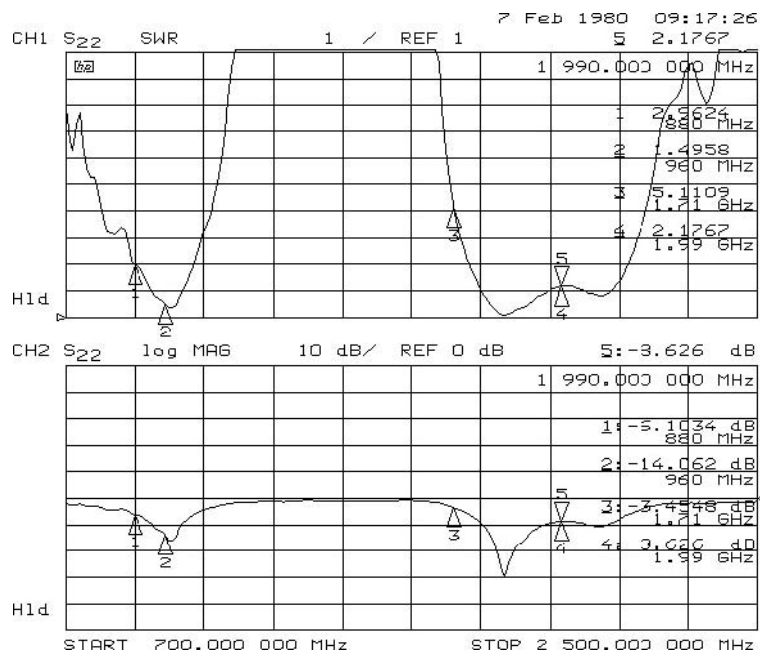


1. Reliability Testing

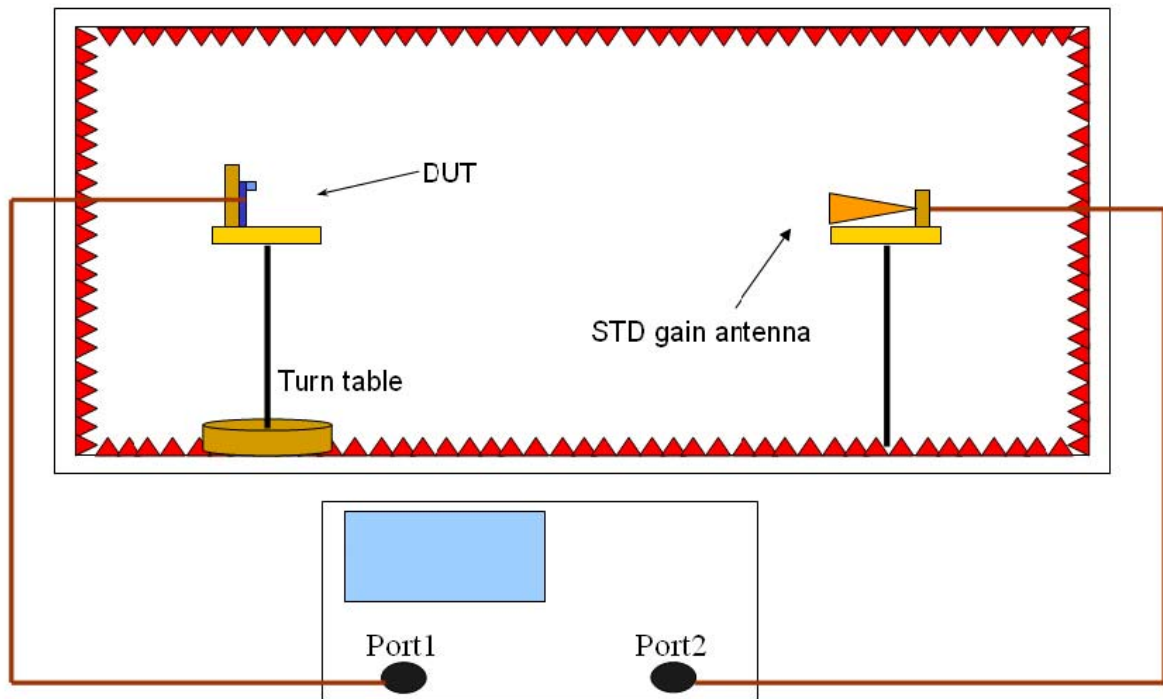
Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours 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

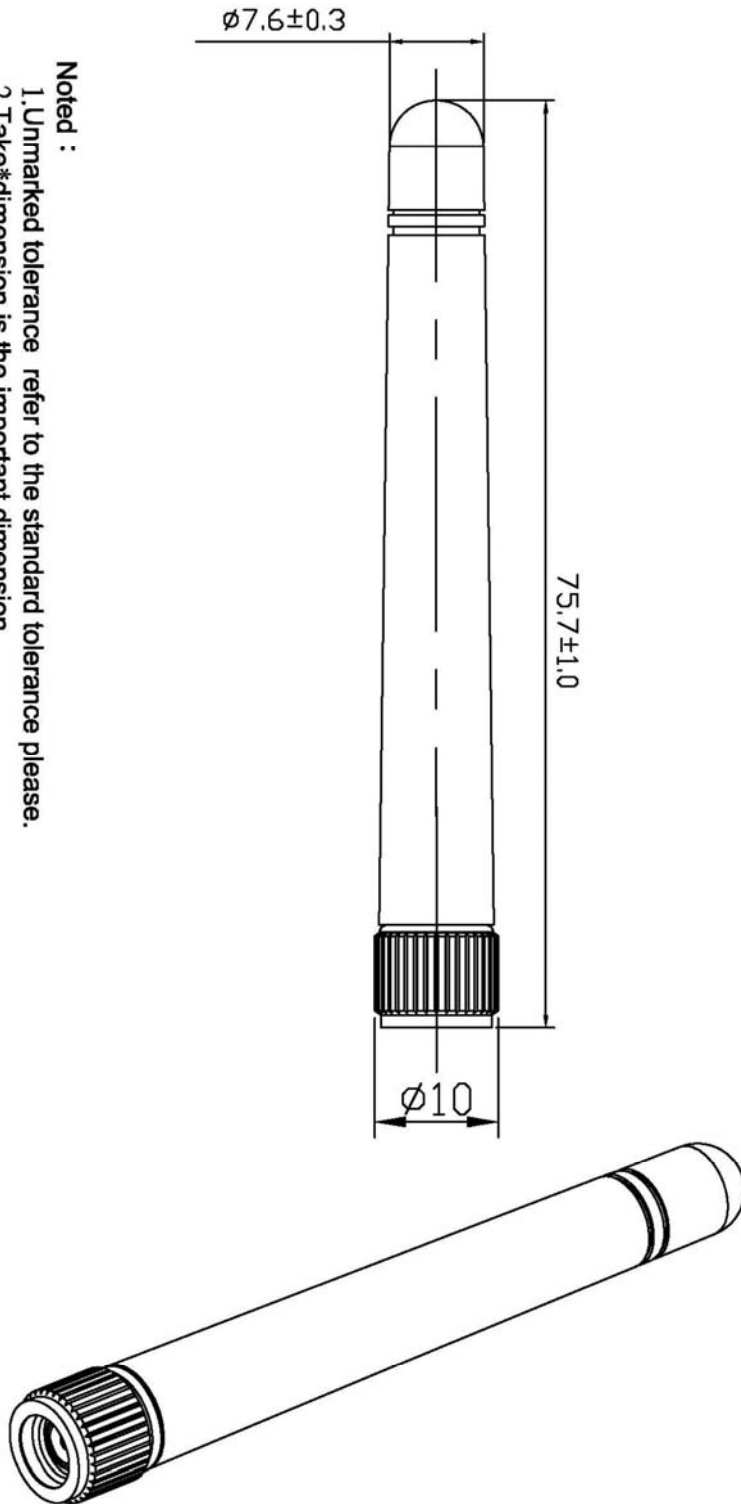
A. Electrical Characteristics	
S.W.R.	800~900 MHz: ≤ 4.5 1800~1900 MHz: ≤ 4.5
Antenna Gain	800~900 MHz @ -2 ± 0.7 dBi 1800~1900 MHz @ -2 ± 0.7 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA
C. Environmental	
Operation Temperature	$-30\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$
Storage Temperature	$-30\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$



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



Noted :
 1. Unmarked tolerance refer to the standard tolerance please.
 2. Take*dimension is the important dimension.

NO	Description	Qty	Material	Finish
3		1		
2		1		
1		1		



R&D

* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES
 0.X = ±0.2
 0.XX = ±0.1
 0.XXX = ±0.05

SCALE 4/1 UNIT MM

APPROVED CASH
 CHECKED LYDIA
 DRAWN PEN

DRAWN DATE 01/05/10

TITLE GSM
 DRAWING NO. GSM

REV A



TPE Datasheet

物性項目 Property	單位 Unit	ASTM 試驗法 Test Method	TPE
比重 Specific Gravity	---	D792	0.88
模具收縮率 Shrinkage	%	D955	0.8-2.5
斷裂拉伸強度 Tensile Strength	Kg/ cm ³	D638	3.1
扭曲強度 Flexural Strength	Kg/ cm ³	D790	---
衝擊強度缺口 23°C Impact Strength	Kg om/om	D256	---
硬度 Hardness	A Shore	---	13
熱變形溫度 0.45 MPa Heat Deflection Temp.	°C	D648	80
熔融指數 Melt Flow Index	G/ min ²	D1238	10
燃燒性 Flammability	---	UL94	HB

Testing Data from