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Product Number: AN0868-5702SM

Product Name: Antenna



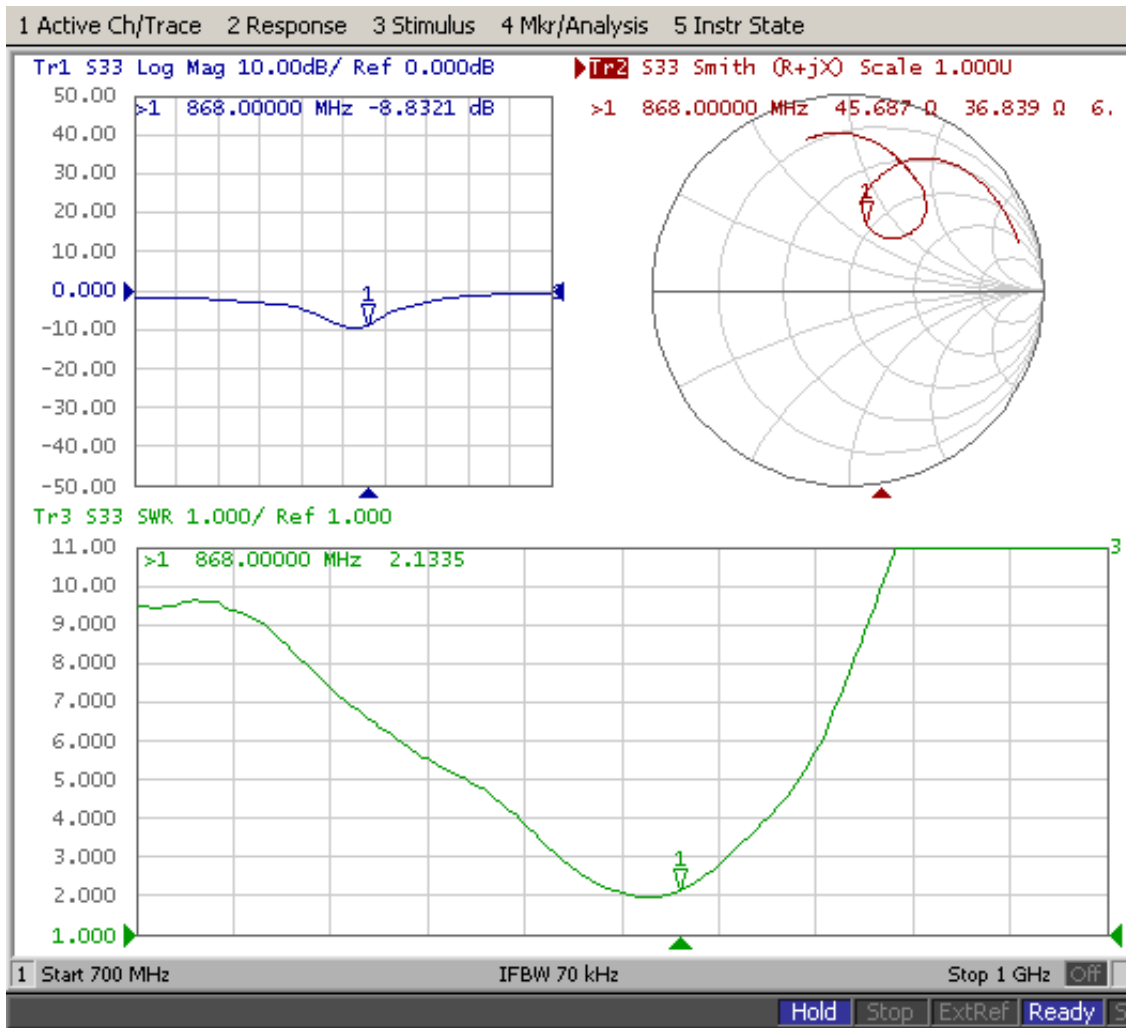
## 1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	868 MHz
S.W.R.	$\leq 3.0$
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	TPEE & ABS & POM
Cable Type	RG178
Connector Type	SMA Male
Connector Pull Test	$\geq 3$ Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 1 year

## 2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

### 3. Antenna - S Parameter Test Data



Product Number: AN0868-5702SM

Product Name: Antenna



#### 4. Antenna - Radiation Pattern Test Data

##### Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

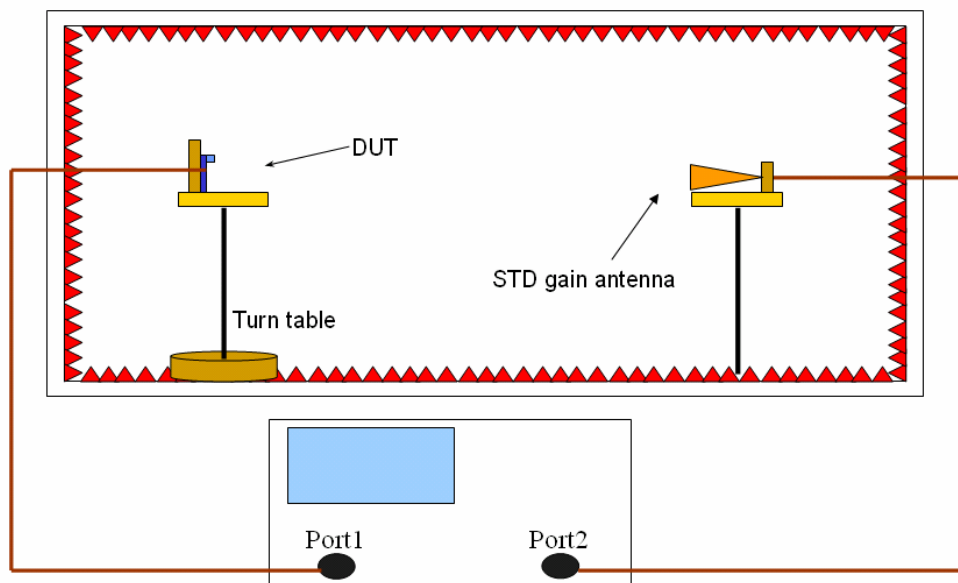
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



#### 5. Mechanical Drawing

See attached files

#### 6. Material Description and RoHS Test Report

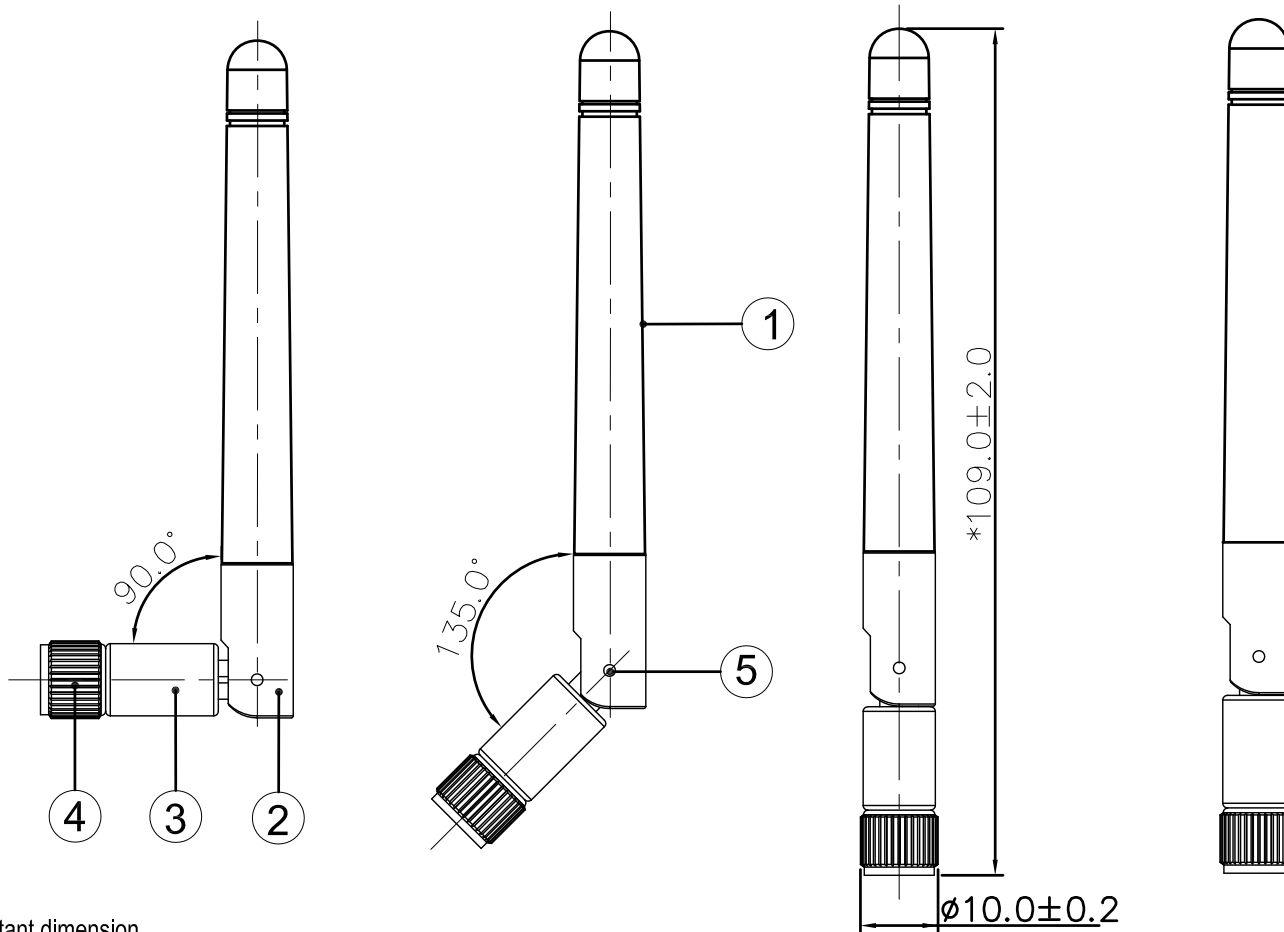
See attached files

# RoHS

## Compatible



SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:  
 1.Take " \* "is the important dimension.  
 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.

5	AN57-12WA3-1	Pin	POM	White	2
4	SMA805-CNT5A56	SMA公頭公針	銅	Ni Plated	1
3	AN57-12WA3-1	連接頭	POM	White	1
2	AN5704-01WA3	連接筒	ABS	White	1
1	AN5701-03WA3	塑膠本體	TPEE	White	1
No.	Part Number	Name	Material	Finish	Q'ty

Invax System Group.

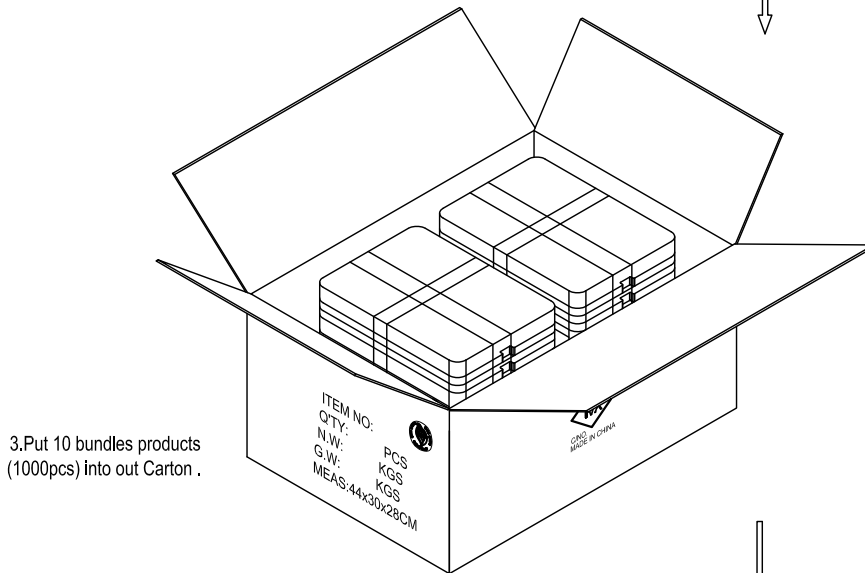
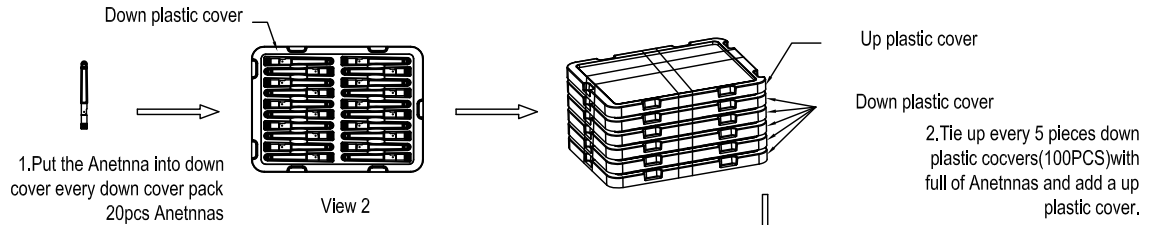
# Cortec

**Cortec Technology Inc.**

Http://www.invaxsystem.com Tel:886-2-27885218  
 E-mail:info@invax.com.tw Fax:886-2-27831658

TITLE: Antenna					
PART NO.: AN0868-5702SM			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
Grant	Jack	SF	HC		UNITS: mm
2012/11/29	2012/11/29	2012/11/29	2012/11/29	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1

Part Number : AN0868-5702SM	Revision : A
Name: AP Antenna	Customer : ALL



4.Pack the out Carton,paste RoHS label on the out Carton.

