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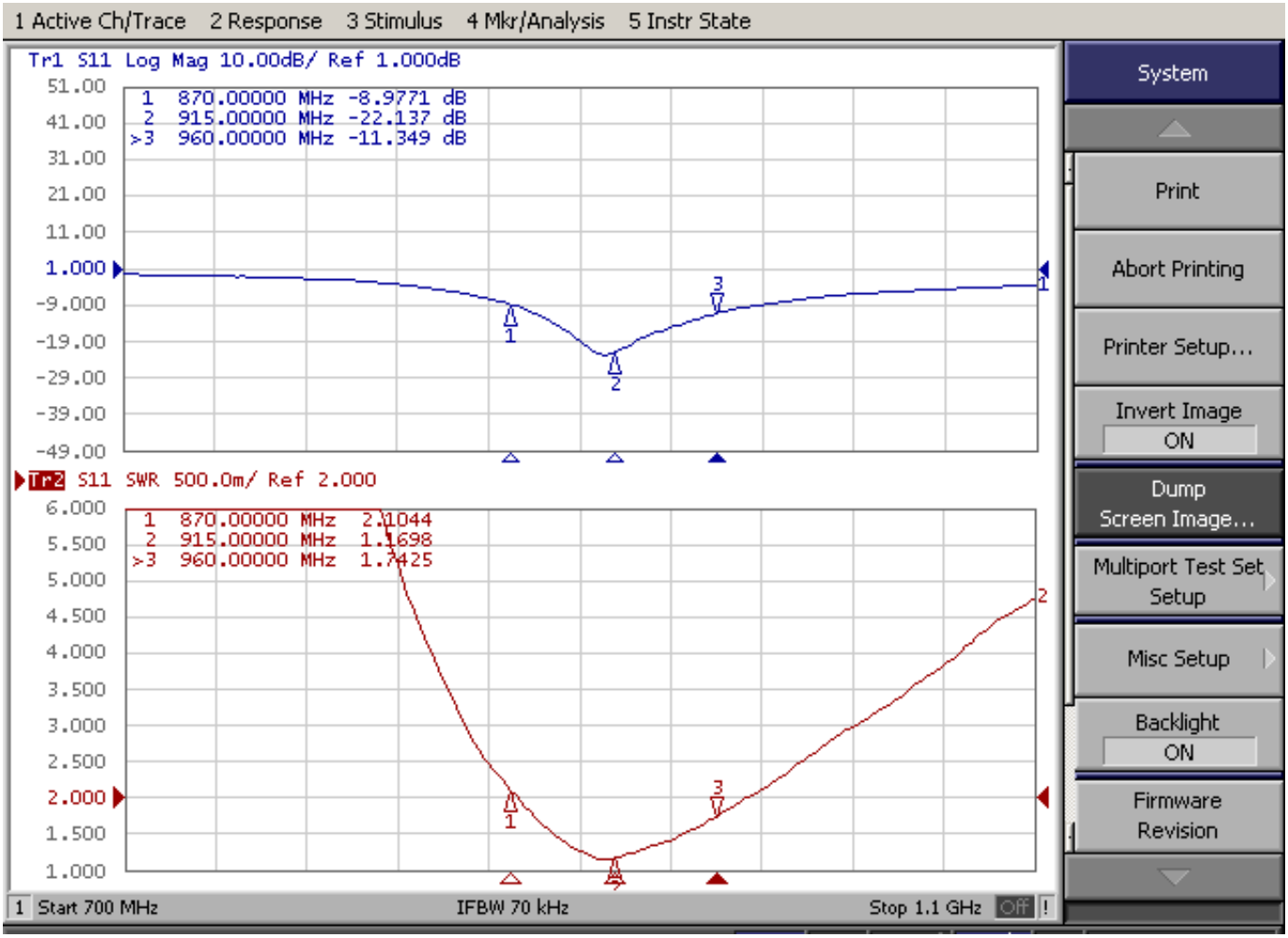
2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	**870 ~ 960 MHz**
V.S.W.R.	**<= 2.0 @ 915 MHz**
Peak Gain	**1.5 dBi**
Polarization	**Linear**
Impedance	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Radiator	**Cu**
Material of Plastic	**ABS / TPEE**
Cable Type	**RG-178U-03**
Connector Type	**TNC Male**
C. Environmental	
Operation Temperature	**- 40 ˚C ~ + 65 ˚C**
Storage Temperature	**- 40 ˚C ~ + 80 ˚C**
Antenna Color Storage life	**< 2** year

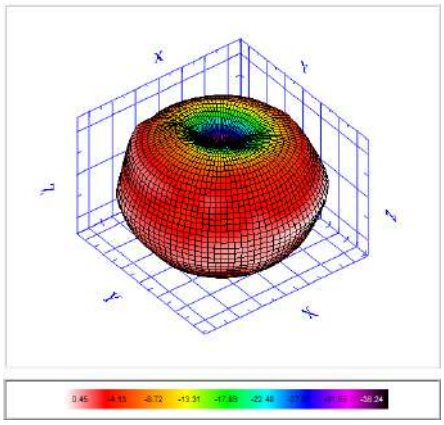
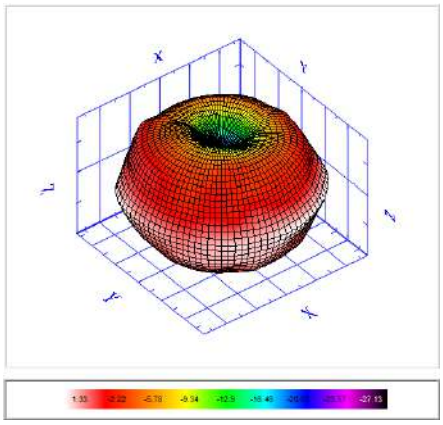
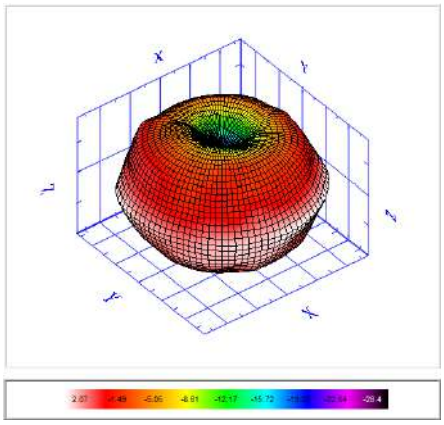
3. Characteristics and Reliability Test

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

4. Antenna - S Parameter Test Data



5. Antenna - Radiation Pattern Test Data

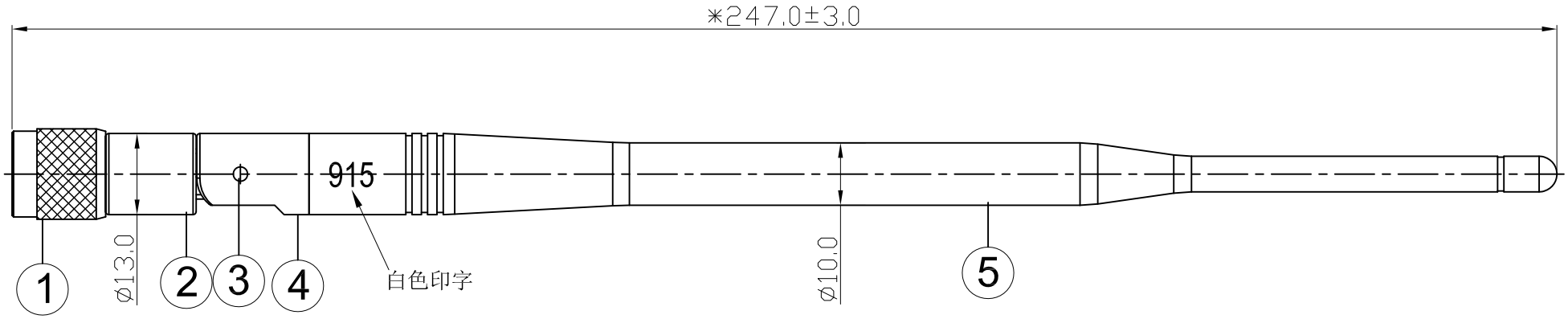
870 MHz	910 MHz	960 MHz
		

Frequency	870	880	890	900	910	920	930	940	950	960
TRP (dBm)	-2.84	-2.89	-2.23	-2.29	-2.26	-2.12	-1.92	-1.72	-1.59	-1.52
Peak EIRP (dBm)	0.45	0.74	1.27	1.3	1.33	1.47	1.67	1.88	2	2.07
NHPRP +/- 45 (degree)	-3.04	-3.12	-2.48	-2.54	-2.51	-2.38	-2.17	-1.97	-1.85	-1.78
NHPRP +/- 30 (degree)	-3.78	-3.84	-3.16	-3.19	-3.16	-3.02	-2.82	-2.62	-2.49	-2.42
E-Theta Peak Gain (dBi)	-16.27	-16.28	-17.37	-17.82	-17.79	-17.65	-17.45	-17.25	-17.12	-17.05
E-Phi Peak Gain (dBi)	0.44	0.72	1.26	1.29	1.32	1.45	1.65	1.86	1.98	2.05
E-Total Peak Gain (dBi)	0.45	0.74	1.27	1.3	1.33	1.47	1.67	1.88	2	2.07
Directivity (dBi)	3.29	3.63	3.5	3.59	3.59	3.59	3.59	3.59	3.59	3.59
Efficiency (%)	52.05	51.38	59.79	59.04	59.45	61.31	64.25	67.33	69.27	70.39

RoHS Compatible

★★★★☆

SIGN	DATE	DESCRIPTION	APPROVER
A			
B			
C			



Note:

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

No.	Part Number	Name	Material	Finish	Q'ty
5	AN13B-01B	Body3	TPEE	Black	1
4	AN9203-02B	Body2	ABS	ø6.5*28.1mm	1
3	AN03-515CZ	Pin	Cu	Black Zn Plated	2
2	AN0303-T04B	Body1	ABS	Black	1
1	TNC124-CCT5AN13	TNC Male	Cu	Eletrodeposition	1

Invax System Group.
Cortec

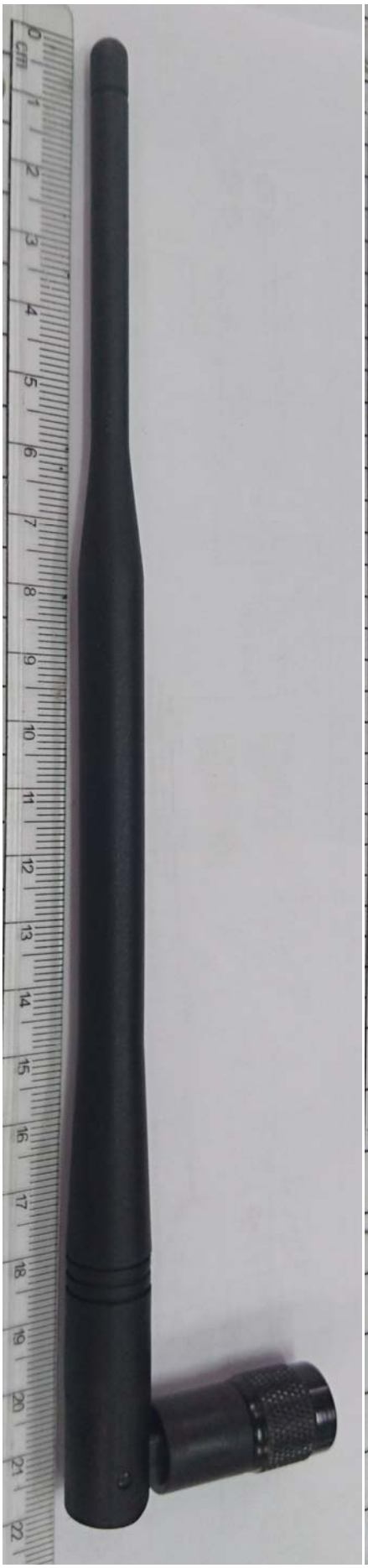
Cortec Technology Inc.
Http://www.Invaxsystem.com Tel :886-2-27885218
E-mail:Info@Invax.com.tw Fax:886-2-27831658

TITLE: 870~960MHz ANTENNA

PART NO.: AN0915-13A09BTM | CUSTOMER P/N: /

APP BY	CHK BY	RF BY	DES BY	
Grant 2017/09/11	Kenny 2017/09/11	SF 2017/09/11	WANGWEI 2017/09/11	UNITS: mm SCALE: 1/1 REVISION: A

Tolerance: X.X ±0.5, X.XX ±0.2, X° ±1



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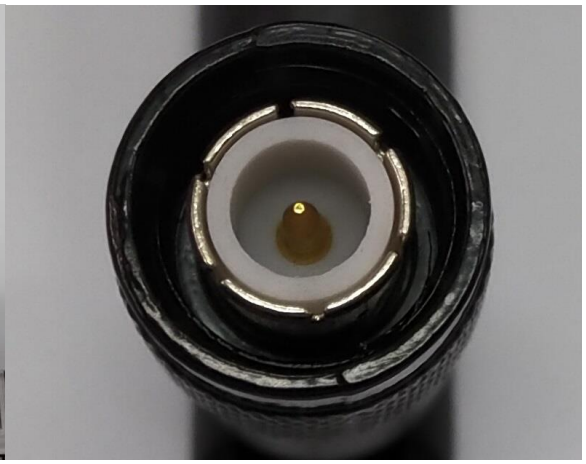

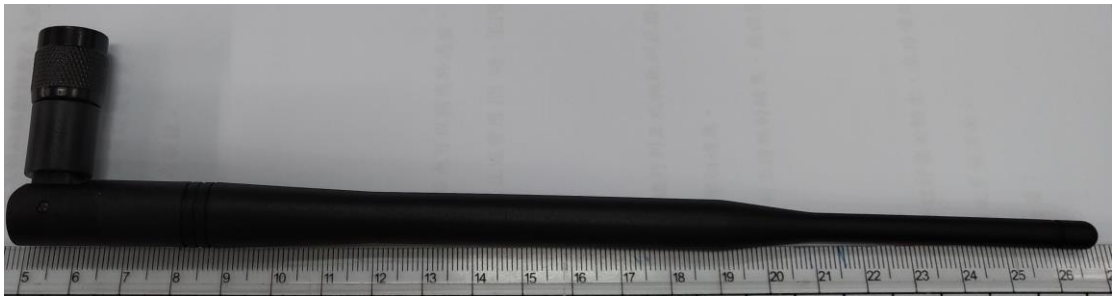

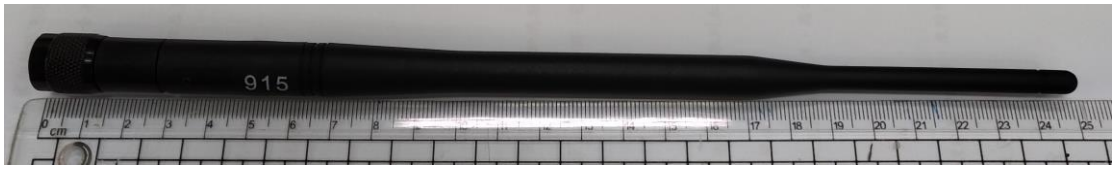
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