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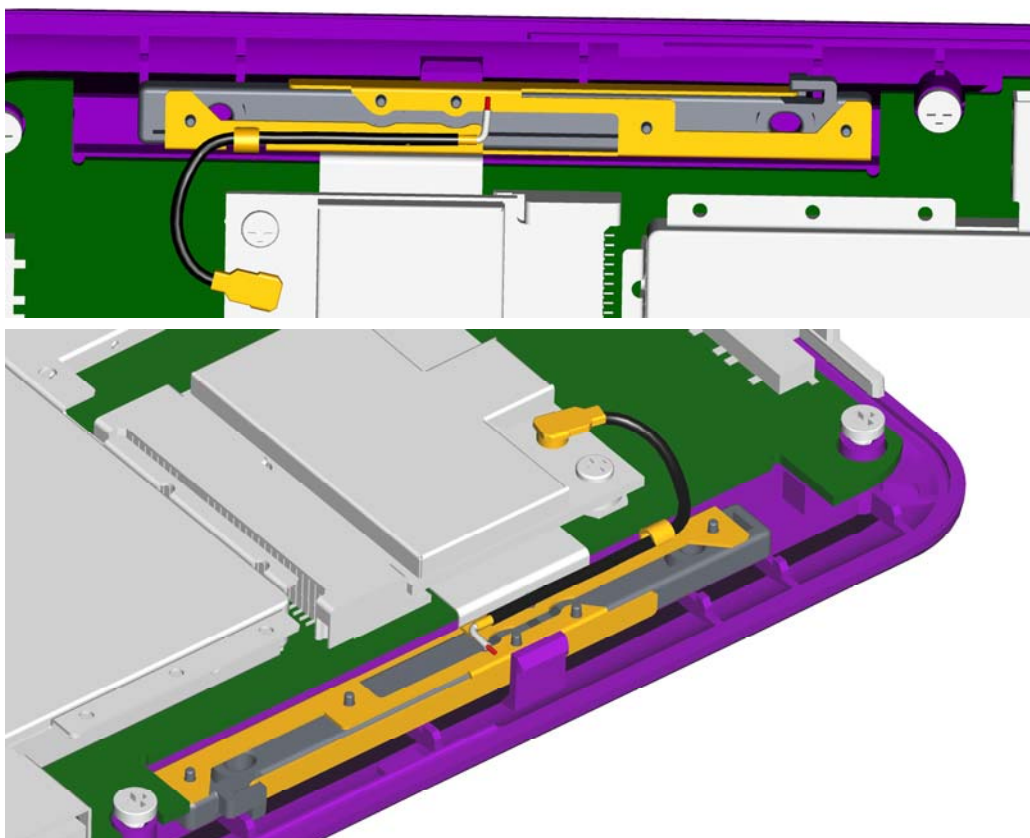
Product Number: NB0175-C1

Product Name: Antenna



1. Specification

Sample Photo



A. Electrical Characteristics

Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Efficiency	65 ~ 75 %
Polarization	Linear
Impedance	50 Ohm
Antenna Type	PIFA

B. Material & Mechanical Characteristics

Material of Radiator	Metal (C7521)
Cable Type	O.D. 1.13 mm (Black)
Connector Type	Mini Connector for O.D. 1.13 mm Coaxial Cable
Pull Test	≥ 1.0 Kg

C. Environmental

Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

2. Characteristics and Reliability Test

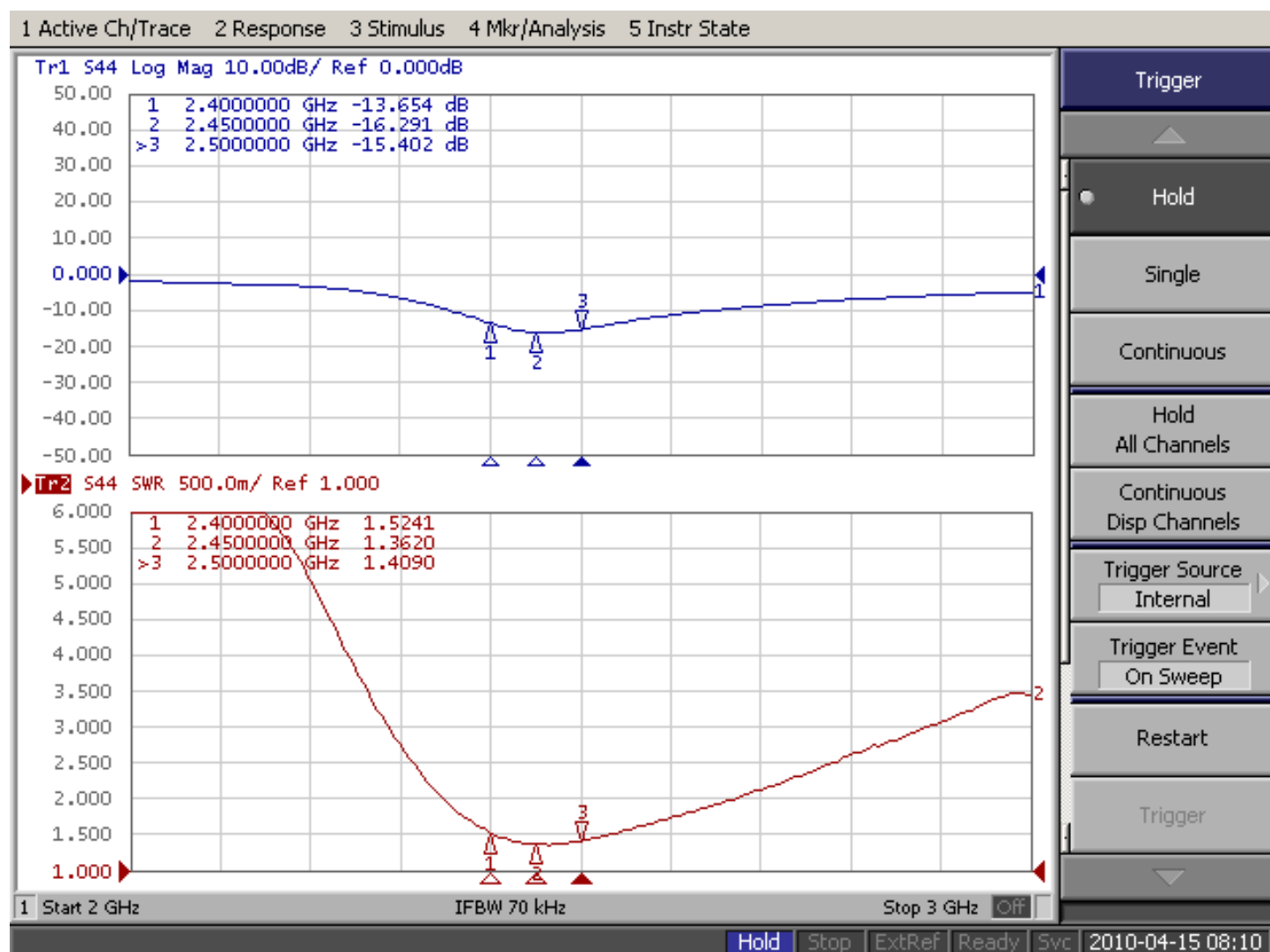
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	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.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 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

Product Number: NB0175-C1

Product Name: Antenna



3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

See attached files

5. Mechanical Drawing

See attached files

6. Material Description and RoHS Test Report

See attached files



Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Model : C1 Antenna

Remark : XZ

Tested by : CORTEC Antenna Lab // Zhao Yao Rong

Location: **Chamber**

Date: **2010/5/6**

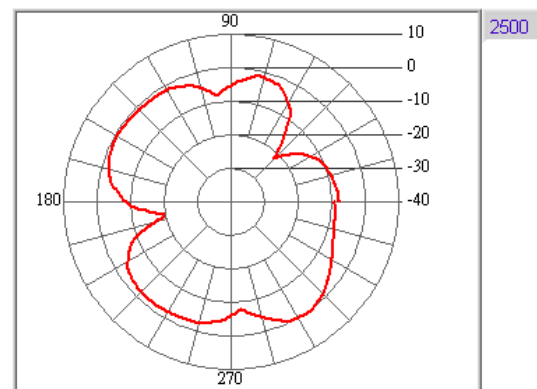
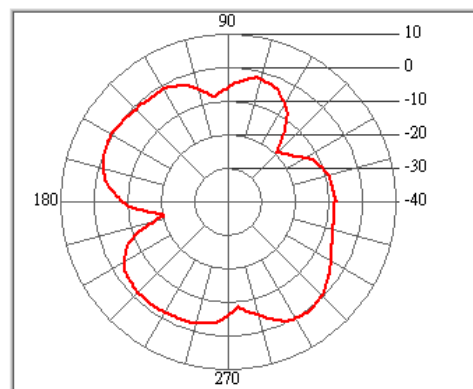
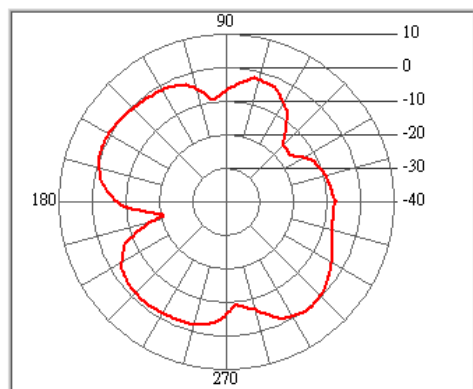
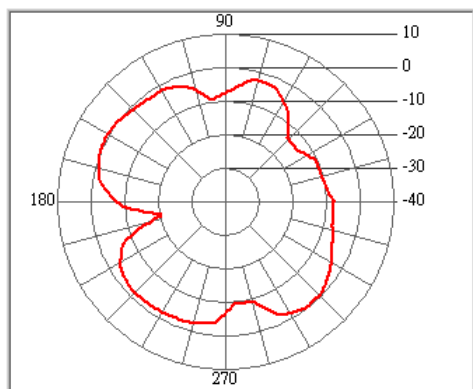
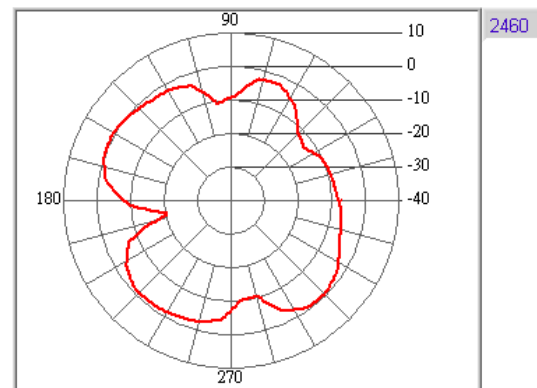
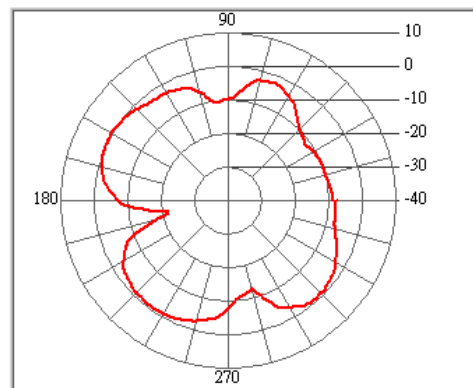
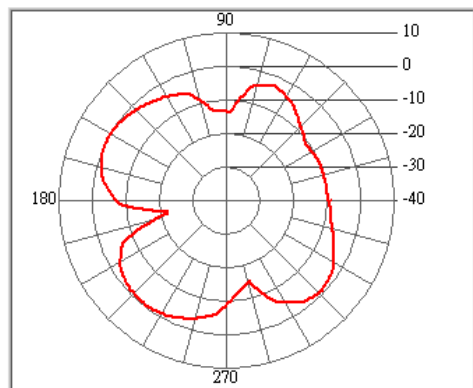
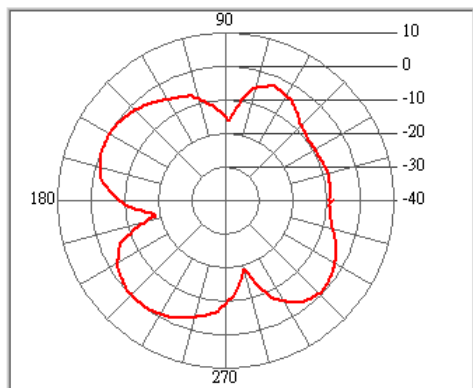
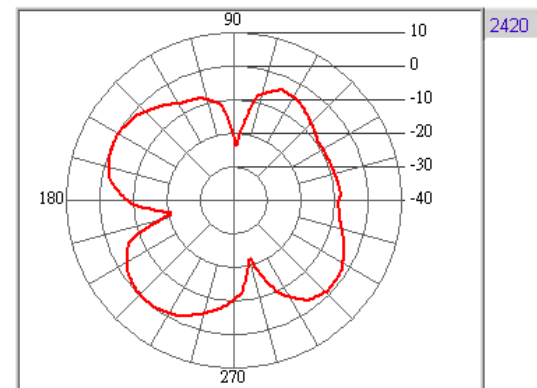
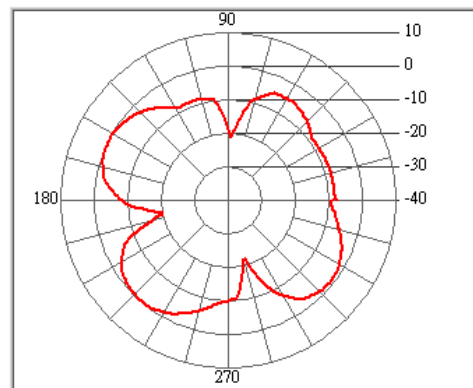
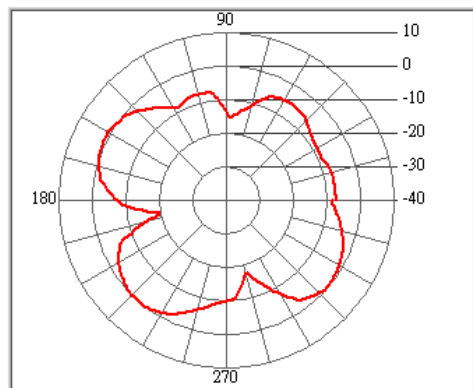
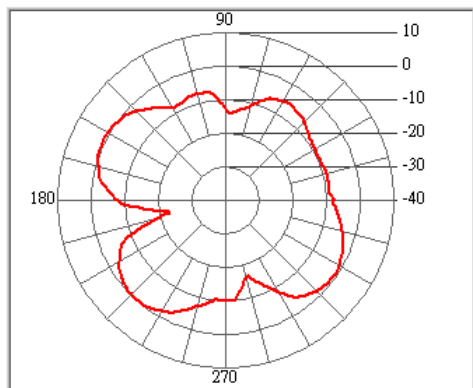
Time: **下午 02:19:29**

Temperatuer (°C): **22.00**

Humidity (%): **55.00**

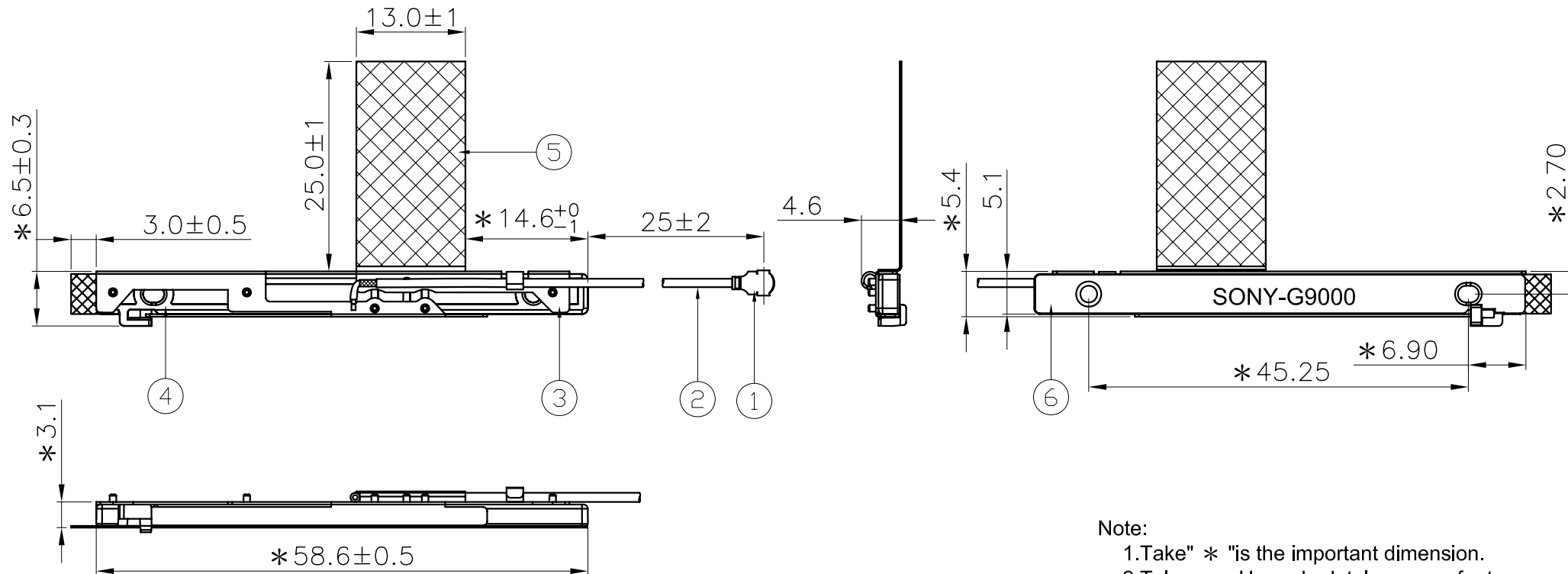
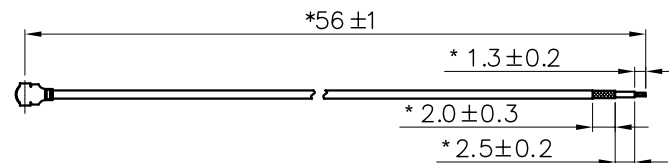
Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	0.64	0.77	-0.16	-0.18	-0.09	-0.04	0.24	0.47	0.6	0.65	0.59	0.3
Peak Degree	150	150	150	150	150	150	150	150	150	150	306	306
AV Gain (dBi)	-4.54	-4.25	-4.7	-4.65	-4.28	-4.38	-3.98	-3.8	-3.82	-3.49	-3.64	-3.87



RoHS

Compatible



Note:

1. Take " * " is the important dimension.
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.
3. Pull Strength of the connector must be $\geq 1.0\text{kg}$.
4. Note Connector orientation.

6	GS-NB0175-C1	Paster	SONY-G9000 58*5mm	1
5	FOIL-AL-NB0175-C1	AL Foil	27mm*13mm	1
4	NB0175-C102	Bracket	ABS Black	1
3	NB0175-C101	Metal Sheet	C7521 T=0.3mm	1
2	R-CB-113B	Coaxial Cable	SHOWA-O.D. 1.13mm Black	1
1	CI-113	Connector	Mini Connector	1
No.	Part Number	Name	Material	Q'ty

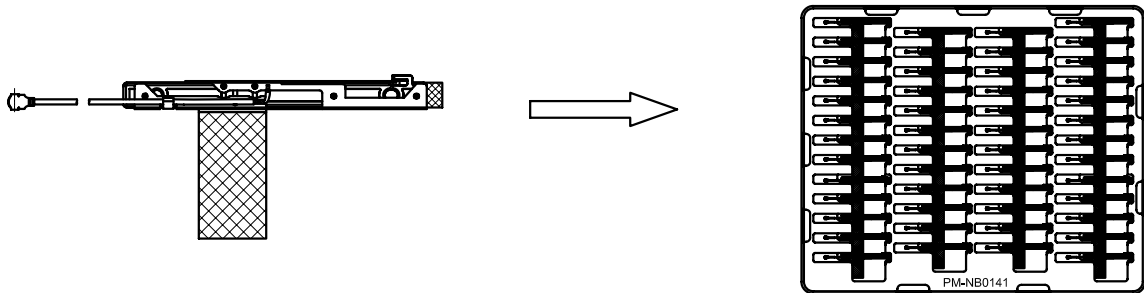
Invax System Group.				Cortec Technology Inc.	
Cortec				Http://www.invaxsystem.com	Tel: 886-2-27885218
				E-mail: info@invax.com.tw	Fax: 886-2-27831658
TITLE: Embedded Antenna					
PART NO.: NB0175-C1			DWG NAME: NB0175-C1.dwg		
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance	
Grant	Jack	Seagold		X.X	± 0.2
2010/04/21	2010/04/21	2010/04/21		X.XX	± 0.1
				X°	$\pm 1^\circ$
			UNITS: mm		
			SCALE: 1/1		
			REVISION: A		

Date: 2010/04/15

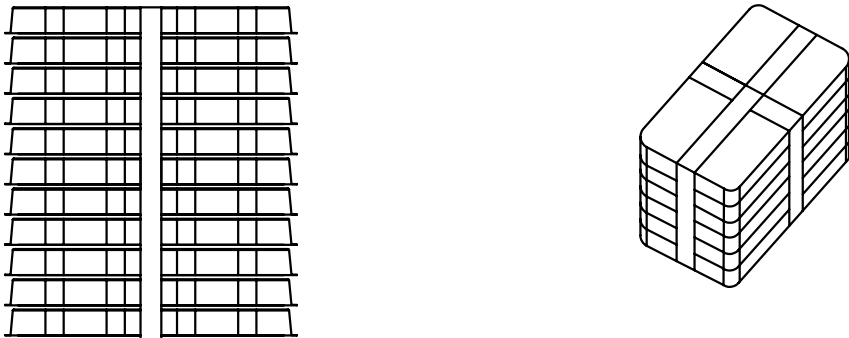
Page: 1 of 1

Part Number : NB0175-C1	Revision : A
Name: Embedded Antenna	Customer :

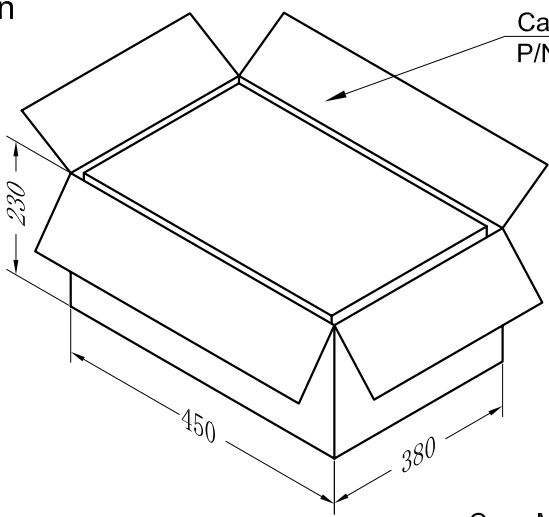
1. 50PCS/per Tray



2. 500PCS/per Bundle

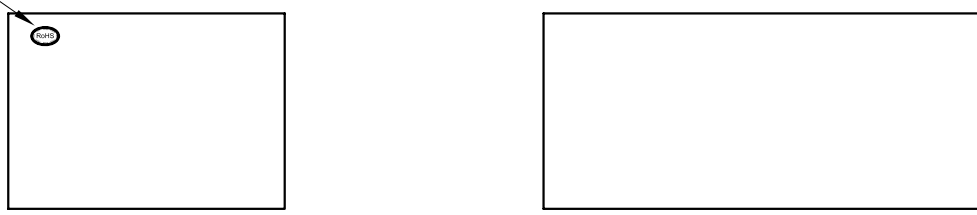


3. 1500PCS/per Carton



Carton 45*38*23CM
P/N: 0TT-K-453823

Green Label Side Mark Case Mark


APPROVED BY : GrantCHECKED BY : JackDESIGNED BY : Seagold