Product Name: Antenna



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Product Name: Antenna



## 1. Revision History

Revision	Date	Change Notification	Description
1.0	2023.02.28	初版	

Product Name: Antenna

## 2. Specification



Sample Photo	
A. Electrical Characteristics	
Frequency	2400~2500 MHz
V.S.W.R.	≦2.0
	Test data from the model test
Gain	- 0 dBi
Efficiency	28 %
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Ch	naracteristics
Material of Radiator	FPC
Cable Type	OD1.13mm
Connector Type	Mini Connector
Connector Pull Test	>= 1Kgf
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Product Name: Antenna

## 3. Characteristics and Reliability Test

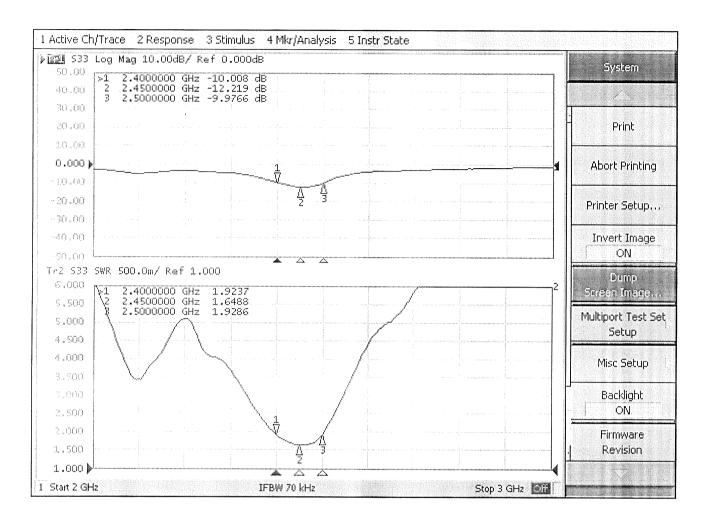


T	est Items	Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual	Directive DUT specification
		calibration to test	
C2	Antenna	Set DUT on Antenna Chamber; make individual	Directive DUT specification
	Gain	calibration to test	
Ni1	Vibration	GB / T2423 . 48-1997	1. No Visual Damage
		Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz	2. Frequency Tol.<= 5%
		3 directions; 2 hours for each direction	
M2	Random	GB / T2423.8-1995	1. No parts separated
	Drop	Height: 1.0 Weter;	2. Frequency Tol.<= 5%
		3 directions; 1 time for each direction	
M3	Solderability	GB 2423 . 28- 82	1. Mounted on PCB
		Solder iron: 260±5°C; Duration: 5 seconds	2. No Visual Damage
NI4	Terminal-	Holding with individual specification; force applied	1. Directive DUT specification
	Pull Test	to axis of terminal	2. Frequency Tol.<= 5%
M5	Terminal-	Holding with individual specification; applied	1. Directive DUT specification
	Torque Test	clockwise and counterclockwise to the axis of	2. Frequency Tol.<= 5%
		terminal	
M6	Dimension	Inspection of dimension, color, material, package,	Directive DUT specification
		surface process	
E1	Salt Spray	GB / T 2423 . 17-93	After 2 Hours Recovery
		Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%;	1. No Visual Damage
		Time: 24 hours	2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93	After 2 Hours Recovery
	·	Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%;	1. No Visual Damage
		Time: 24 hours	2. Frequency Tol.<= 5%
E3	Thermal	GB / T 2423 . 22 - 87	After 2 Hours Recovery
	Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)	1. No Visual Damage
	:	Cycles: 24	2. Frequency Tol.<= 5%
E4	Life (High	GB /T 2423 . 2 - 89	After 2 Hours Recovery
	Temp.)	Temp: 80°C; Time: 24 hours	1. No Visual Damage
			2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU

**Product Name: Antenna** 

#### 4. Antenna - S Parameter Test Data



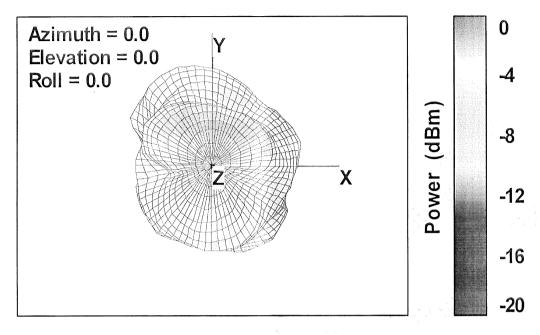


Product Name: Antenna

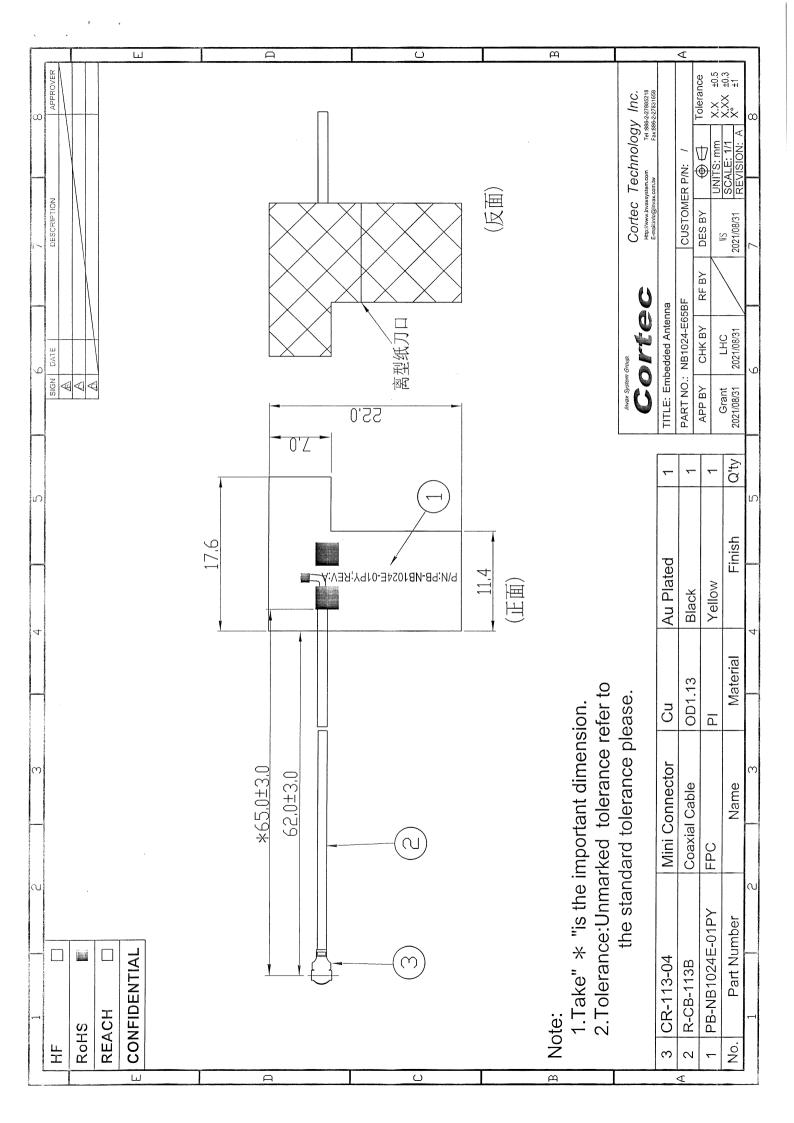
### 5. Antenna - Radiation Pattern Test Data

# fortor

## Total



Total Point Values	Ant. Port Input Pwr. (dBm)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
Frequency (MHz)							
2400	0	-5.19847	-0.758568	4.43991	-5.19847	30.2101	-0.758568
2410	0	-5.26773	-0.773247	4.49448	-5.26773	29.7322	-0.773247
2420	0	-5.24748	-0.585349	4.66213	-5.24748	29.8712	-0.585349
2430	0	-5.40594	-0.612638	4.7933	-5.40594	28.8009	-0.612638
2440	0	-5,49369	-0.624929	4.86876	-5,49369	28.2248	-0.624929
2450	0	-5.50548	-0.634792	4.87069	-5.50548	28.1483	-0.634792
2460	0	-5.43753	-0.57442	4.86311	-5.43753	28,5921	-0.57442
2470	0	-5.3995	-0.479727	4.91977	-5.3995	28.8436	-0.479727
2480	0	-5.49285	-0.419763	5.07309	-5.49285	28,2303	-0.419763
2490	0	-5.43976	-0.177993	5.26176	-5.43976	28.5775	-0.177993
2500	0	-5.57396	-0.055 <b>549</b> 7	5.51841	-5.57396	27.7079	-0.0555497



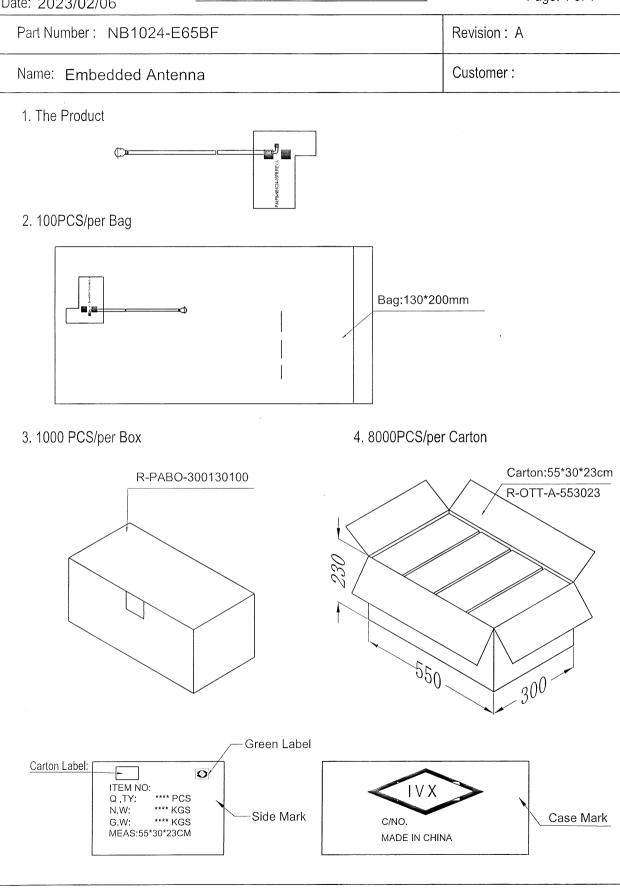


## 產品包裝規範 **PACKING CRITERION**



Date: 2023/02/06

Page: 1 of 1



APPROVED BY:

SF

CHECKED BY:

YS

DESIGNED BY: WS

# 東莞康捷電子有限公司(Cortec Technology Inc.)

樣品檢測報告(Sample inspection report)

编号(number):

20230225001

1	与名稱 tomer		TF	産品編號 Product ID		NB10	)24 <b>-</b> E65	BF	1	品名稱 P/N		<u></u>	3置天线
	E日期 ind time		23.02.25	送樣數量 sample number	7	0pcs		驗數量 ection nc	2	0 pcs	ı	g日期 ng Date	2023.02.25
The		次打模 times	k proofing	1			産品工 duct er					魏沈	
物料	組合	plasti						/					
combin	nation of erials	metal						端子					
		其他 other					F	PC、线材	才				
序號 Item	檢測 <sup>1</sup> Inspec	ction	Specific	規格要求 cation requiremen	CS.		Insp	檢驗記錄 ection re			1	定 ninant)	檢驗工具(方法) Inspection
	iter 夕卜帽		1			1	2	3	4	5	OK	NG	tool(way)
1	appear	rance	无			OK	OK	OK	OK	OK	√.		目视
2	實面 it wi	ith	1.	13四代端子		OK	OK	OK	OK	OK	1		对扣
3	功角 funct		V	电性		OK	ОК	OK	ОК	ОК	1		网络分析仪
4			6.5	5.0±3.0mm		65	65	65	65	65	1		钢尺
5			62	2.0±3.0mm		62	62	62	62	62	√		钢尺
6	尺寸(s	iza)	17	7.6±0.5mm		17.55	17.54	17.55	17.56	17.54	<b>V</b>		2.5D投影
7	1/ 1/0	SIZC)	11	. 4±0.5mm		11.28	11.27	11.28	11.27	11.29	1		 2.5D投影
8			7.	.0±0.5mm		6.93	6.94	6.94	6.95	6.96	1		2. 5D投影
9			22	. 0±0.5mm		21.90	21.91	21.93	21.92	21.93	<b>V</b>		2.5D投影
10													
11													
12													***************************************
13													
produc	哲符合R ts compl	y with	ROHS L	☑是(Yes)			口不	是(No)				其他(O	ther)
	最終結身 ntegratio		1 1	☑合格(OK)			□不	合格(NC	3)				
精註 Mark)													
走けかてA 、	11.1	ジルム	sk-ka	74\71.									

審核(Audit):

梁继锋

確認(Confirm By):

徐瑞阳

檢驗員(Checkout By

罗丹丹

表單編號Flie No.: COR/F-H-58b

SGS TaiBei Network---http://twap.sgs.com/sgsrsts/chn/cheres\_tw.asp

SGS Mainland Network---http://rsts.cn.sgs.com/zh-cn/cheres\_cn.asp

SGS Korea S. Network---http://rohs.kr.sgs.com/sgsrsts/en/cheres\_en.asp

PLS fill out the correct data for search

1.Report Number

2.Report Date(YYYY/MM/DD)

3.Product Name(Input the first 10 figures. Do not include the blank ) 4.The graphic presentation checking yard

# **HSF** Datasheet

R&D Shi li

Cortec Technology Inc.

Writer Dept Job J

Part N	Part Number: NB1024-E65BF	}F													Job:	Assistant
Num	Defali Part Nimber	Detail Name	Motoriol				Rol	HS Test	RoHS Test Results	S;						
ber			ואומוטואון	Сд	Pb	BH B	Cr(VI) PBBs	1	PBDEs	DBP B	BBP DIE	DIBP DEHP	Report Number	Test Date	Test Name	Test Locale
-	PB-CB-113B	FPC	ā	N.D.	Z. O.	N.O.	N.O.	Z.	N.O.	N. O. N.	N.D. N.D.		N.D. CANEC2203104910	2022.03.22	SJC-8025S.	SGS
2			FEP黑点商母	Z. D.	N.D.	N.D.	N.D.	N.D.	Ö. Ö.	Z Z	N.D. N.D.	O, N.D.	D. CANEC222604310	2022.12.13	FEP	SGS
က	R-CB-113B	Cable	H H D	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D. N.D.	O. N.D.	D. NGBMR23000169901	2023.02.06	FLUORINATED ETHYLENE	SGS
4			镀锡铜	Ö.	Ö.	N.D.	N.D.	N.D.	N.D.	Z O Z	N.D. N.D.	N.D.	D. A2220469900101001	2022.10.25	TIN PLATING ROUND	CTI
ഹ			镀铅铜	N.D.	Z. O.	N.O.	N.D.	N.D.	N. O.	Z Ö.	N.D. N.D.	N.D.	). SHAEC2217007511	2022.12.15	SILVER-COATED	SGS
9			PBT	N.D.	10.4	Z. Ö.	N.D.	Z O	N.D.	N.O.	N.D. N.D.	N.D.	D. ETR22C03352	2022.12.22	POLYBUTYLENE	SGS
7	CR-113-04	Mini Connector	7- 12:	N.D.	5	N.D.	N. O.	N.D.	N. O.	Z	N.D. N.D.	N.D.	). CANEC2301145809	2023.02.08	C5210	Ses
∞			镀金层	Ŋ. O.	Ö.	Ö.	O.N.	N.D	ΩŻ	Z Q.X	N.D.N.D.	O.N.	A2220058173101001E	2022.03.05	金镀层	CTI

PLS refer the SGS report, fill out the content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs

The content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs is less than 100 ppm in the package. The content of Cd is less than 5 ppm.

According to the EU ROHS directive exemption clause 2011/65/EU Lead as an alloying element in steel containing up to 0,35 % aluminium containing up to 0,4% copper alloy containing up to 4%