



Tengxiang Technology, Inc

东莞市腾祥电子有限公司

Product Number: AN2450-SNA181004

Product Name: Antenna

Specification For Approval

Date: 2024.10.11

Version: 1.0

客户名称

Customer:

九安

客户料号

Customer P/N:

腾祥料号

TX P/N:

AN2450-SNA181004

规格描述

Description:

2.4/5G 金属片天线

Tengxiang Checked By: 腾祥审核		Customer Approved By: 客户审核	
DRAWN 制 作	路婷	TESTED BY 检 测	
CHECKED BY 审 核	胡超	CHECKED BY 审 核	
Q.C.DEPT. 品 管	江美如	Q.C.DEPT. 品 管	
APPROVED BY 核 准	韦佳	APPROVED BY 核 准	



NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China

中国广东省东莞市长安镇沙头区沙涌路 53 号

TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxlang.cn>



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number:AN2450-SNA181004

Product Name: Antenna

Index:

1. Specification (规格)
2. Characteristics and Reliability Test (产品特性和可靠性测试标准)
3. Antenna - S Parameter Test Data (样品测试数据)
4. Antenna - Radiation Pattern Test Data (辐射模式测试数据)
5. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

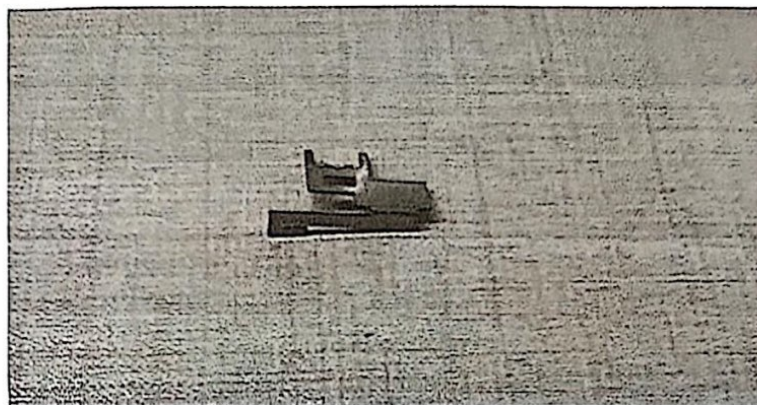
Revision	Date	Change Notification	Description
1.0	2024.10.10	初版	

Product Number: AN2450-SNA181004

Product Name: Antenna

1. Specification

Sample Photo



A. Electrical Characteristics

Frequency 频率	2400-2500 MHz/5150-5850MHz
S.W.R. 驻波比	≤ 2.0 / ≤ 2.5
Antenna Gain 增益	3.42dBi / 3.86dBi
Polarization 极化方式	Linear
Impedance 阻抗	50 Ohm

B. Material & Mechanical Characteristics

Material 材质	洋白铜
-------------	-----

C. Environmental

Storage Temperature 存储温度	- 40°C ~ +80 °C
Operation Temperature 工作温度	- 40°C ~ +80 °C
Antenna Color Storage life 天线颜色存储寿命	< 2 year



Tengxiang Technology.Inc

东莞市腾祥电子有限公司

Product Number: AN2450-SNA181004

Product Name: Antenna

2. Characteristics and Reliability Test

Test Items 测试项目		Test Condition and Procedure 测试方法	Requirements 要求	Result 结果
1	V.S.W.R. 电压驻波比	Set DUT on Network Analyzer; make individual calibration to test 设置网络分析仪参数进行测试	Directive DUT specification 符合待测物规范	PASS
3	Antenna Gain 天线增益	Set DUT on Antenna Chamber; make individual calibration to test 设置天线暗室参数进行测试	Directive DUT specification 符合待测物规范	PASS
4	Dimension 尺寸	Inspection of dimension, color, material, package, surface process. 检查尺寸, 颜色, 材料, 包装, 表面处理	Directive DUT specification 符合待测物规范	PASS
5	RoHS	With Reference to IEC 62321:2008 with flow chart 参考 IEC 62321 测试流程	Directive RoHS 2015/863/EU 符合 RoHS 2015/863/EU 标准	PASS



腾祥电子
TENGXIANG ELECTRONIC

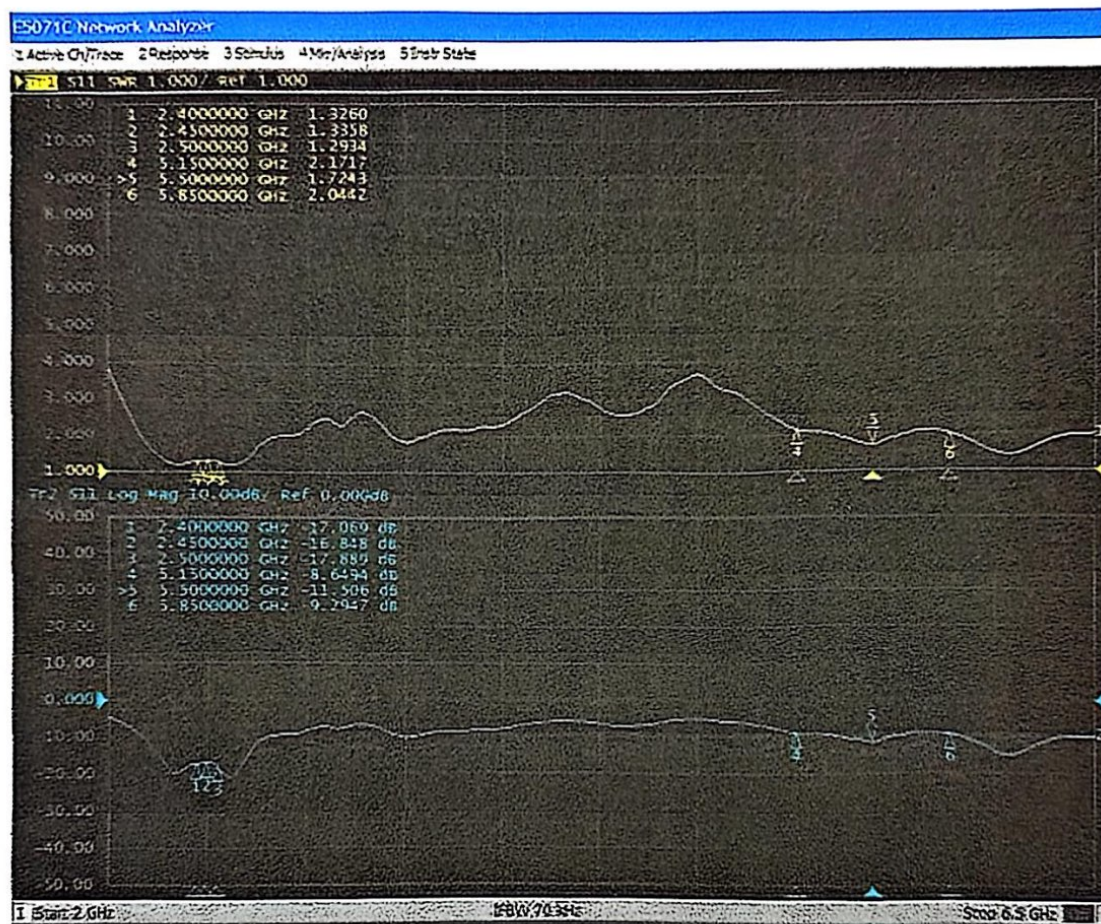
Tengxiang Technology, Inc

东莞市腾祥电子有限公司

Product Number: AN2450-SNA181004

Product Name: Antenna

3. Antenna - S Parameter Test Data



Product Number: AN2450-SNA181004

Product Name: Antenna

4. Antenna - Radiation Pattern Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.08	3.15	3.26	3.42	3.31	3.35	3.18	3.13	3.10	3.09	3.04
Efficiency (%)	57.42	58.81	61.16	59.00	57.33	58.02	59.93	60.12	58.63	57.25	56.01

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
2.37	2.13	2.57	2.04	2.36	2.75	2.83	2.54	2.34	2.40	3.08	3.45	3.86	3.83	3.27
41.25	40.29	42.19	41.28	42.63	41.37	42.66	41.58	42.46	43.85	44.49	43.86	41.77	42.10	41.95

有源

802.11b 11Mbps

Test Channel	ch1	ch6	ch11
TRP (dBm)	18.17	18.24	18.12
TIS (dBm)	-83.97	-83.67	-84.23

802.11g 54Mbps

Test Channel	ch1	ch6	ch11
TRP (dBm)	17.32	17.77	17.44
TIS (dBm)	-71.34	-71.25	-71.72

802.11n MCS7

Test Channel	ch1	ch6	ch11
TRP (dBm)	17.65	17.28	17.97
TIS (dBm)	-67.63	-68.54	-68.49

802.11a 54Mbps

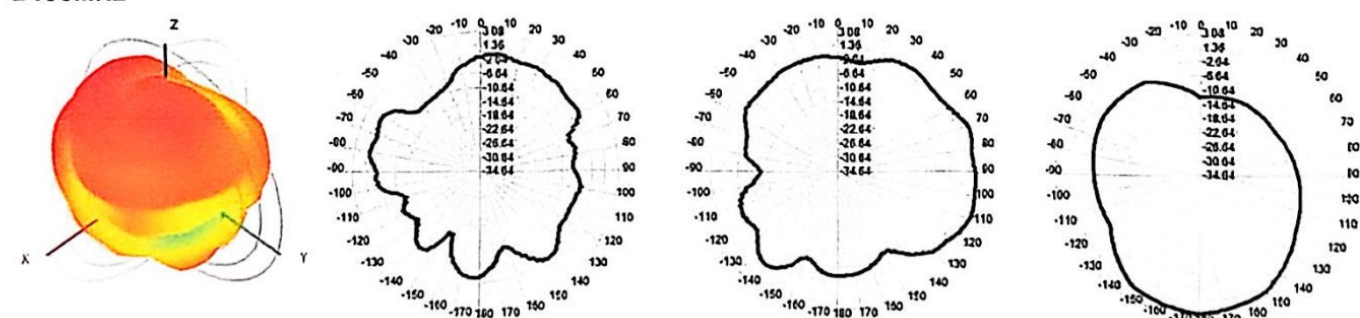
Test Channel	ch44	ch120	ch132	ch149
TRP (dBm)	17.68	18.35	18.7	17.94
TIS (dBm)	-74.83	-75.87	-76.84	-74.93

XZ

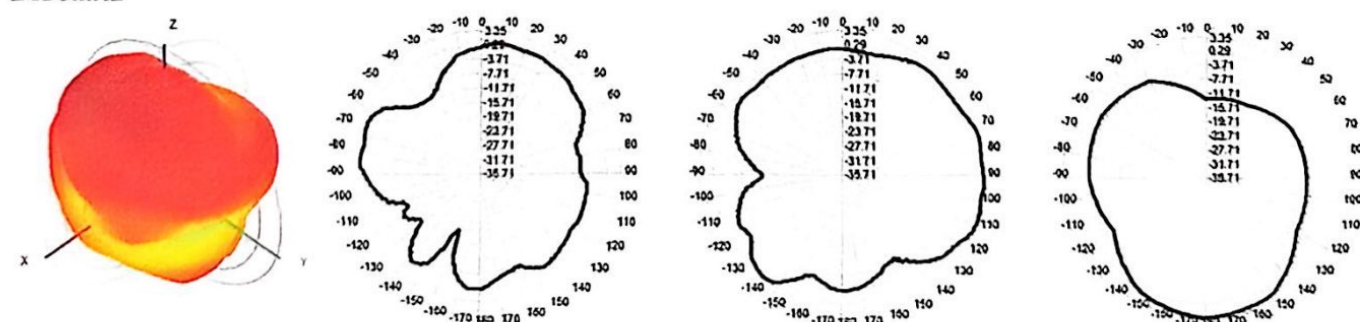
YZ

XY

2400MHz



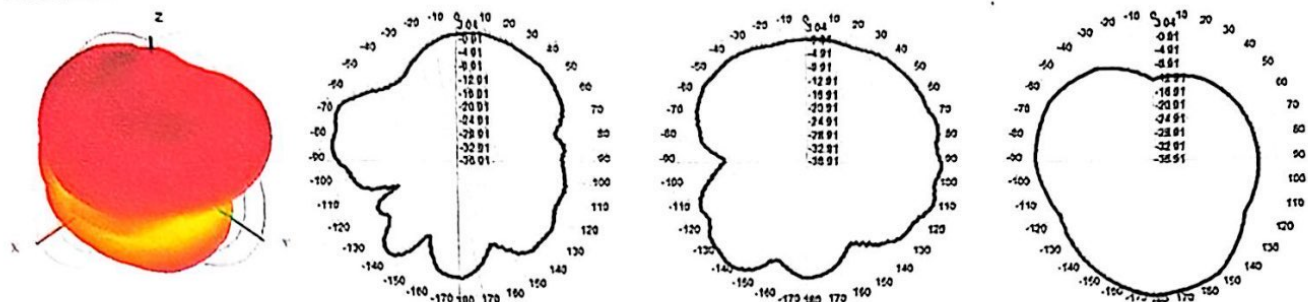
2450MHz



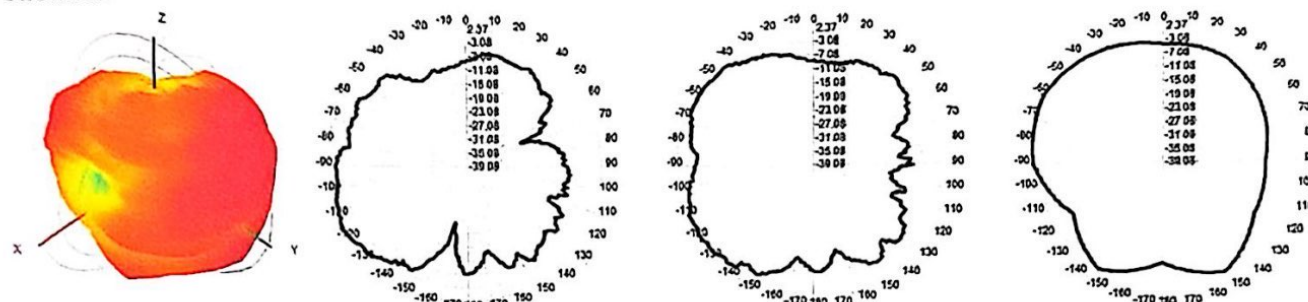
Product Number: AN2450-SNA181004

Product Name: Antenna

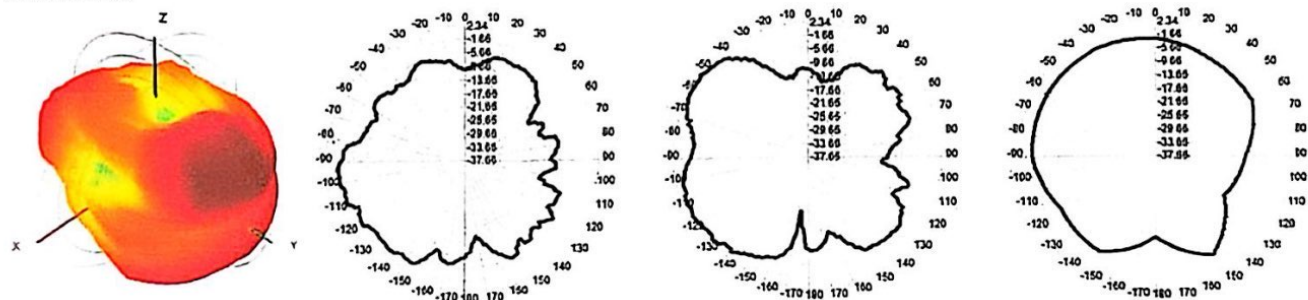
2500MHz



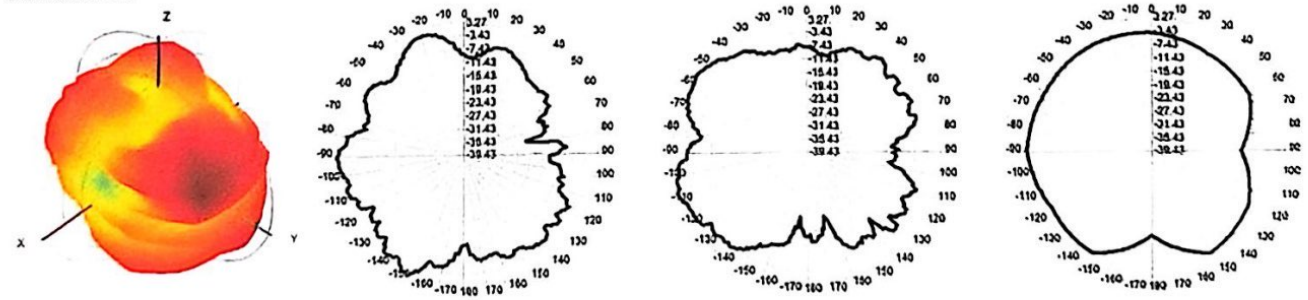
5150MHz



5550MHz



5850MHz



5. Mechanical Drawing See attached files

HF ☐		RoHS ☒		REACH ☐		CONFIDENTIAL	
E		D		C		B	
A		1		2		3	
		4		5		6	
		7		8		9	
		10		11		12	
		13		14		15	
		16		17		18	
		19		20		21	
		22		23		24	
		25		26		27	
		28		29		30	
		31		32		33	
		34		35		36	
		37		38		39	
		40		41		42	
		43		44		45	
		46		47		48	
		49		50		51	
		52		53		54	
		55		56		57	
		58		59		60	
		61		62		63	
		64		65		66	
		67		68		69	
		70		71		72	
		73		74		75	
		76		77		78	
		79		80		81	
		82		83		84	
		85		86		87	
		88		89		90	
		91		92		93	
		94		95		96	
		97		98		99	
		100		101		102	
		103		104		105	
		106		107		108	
		109		110		111	
		112		113		114	
		115		116		117	
		118		119		120	
		121		122		123	
		124		125		126	
		127		128		129	
		130		131		132	
		133		134		135	
		136		137		138	
		139		140		141	
		142		143		144	
		145		146		147	
		148		149		150	
		151		152		153	
		154		155		156	
		157		158		159	
		160		161		162	
		163		164		165	
		166		167		168	
		169		170		171	
		172		173		174	
		175		176		177	
		178		179		180	
		181		182		183	
		184		185		186	
		187		188		189	
		190		191		192	
		193		194		195	
		196		197		198	
		199		200		201	
		202		203		204	
		205		206		207	
		208		209		210	
		211		212		213	
		214		215		216	
		217		218		219	
		220		221		222	
		223		224		225	
		226		227		228	
		229		230		231	
		232		233		234	
		235		236		237	
		238		239		240	
		241		242		243	
		244		245		246	
		247		248		249	
		250		251		252	
		253		254		255	
		256		257		258	
		259		260		261	
		262		263		264	
		265		266		267	
		268		269		270	
		271		272		273	
		274		275		276	
		277		278		279	
		280		281		282	
		283		284		285	
		286		287		288	
		289		290		291	
		292		293		294	
		295		296		297	
		298		299		300	
		301		302		303	
		304		305		306	
		307		308		309	
		310		311		312	
		313		314		315	
		316		317		318	
		319		320		321	
		322		323		324	
		325		326		327	
		328		329		330	
		331		332		333	
		334		335		336	
		337		338		339	
		340		341		342	
		343		344		345	
		346		347		348	
		349		350		351	
		352		353		354	
		355		356		357	
		358		359		360	
		361		362		363	
		364		365		366	
		367		368		369	
		370		371		372	
		373		374		375	
		376		377		378	
		379		380		381	
		382		383		384	
		385		386		387	
		388		389		390	
		391		392		393	
		394		395		396	
		397		398		399	
		400		401		402	
		403		404		405	
		406		407		408	
		409		410		411	
		412		413		414	
		415		416		417	
		418		419		420	
		421		422		423	
		424		425		426	
		427		428		429	
		430		431		432	
		433		434		435	
		436		437		438	
		439		440		441	
		442		443		444	
		445		446		447	
		448		449		450	
		451		452		453	
		454		455		456	
		457		458		459	
		460		461		462	
		463		464		465	
		466		467		468	
		469		470		471	
		472		473		474	
		475		476		477	
		478		479		480	
		481		482		483	
		484		485		486	
		487		488		489	
		490		491		492	
		493		494		495	
		496		497		498	
		499		500		501	
		502		503		504	
		505		506		507	
		508		509		510	
		511		512		513	
		514		515		516	
		517		518		519	
		520		521		522	
		523		524		525	
		526		527		528	
		529		530		531	
		532		533		534	
		535		536		537	
		538		539		540	
		541		542		543	
		544		545		546	
		547		548		549	
		550		551		552	
		553		554		555	
		556		557		558	
		559		560		561	
		562		563		564	
		565		566		567	
		568		569		570	
		571		572		573	
		574		575		576	
		577		578		579	
		580		581		582	
		583		584		585	
		586		587		588	
		589		590		591	
		592		593		594	
		595		596		597	
		598		599		600	
		601		602		603	
		604		605		606	
		607		608		609	
		610		611		612	
		613		614		615	
		616		617		618	
		619		620		621	
		622		623		624	
		625		626		627	
		628		629		630	
		631		632		633	
		634		635		636	
		637		638		639	
		640		641		642	
		643		644		645	
		646		647		648	
		649		650		651	
		652		653		654	
		655		656		657	
		658		659		660	
		661		662		663	
		664		665		666	
		667		668		669	
		670		671		672	
		673		674		675	
		676		677		678	
		679		680		681	
		682		683		684	
		685		686		687	
		688		689		690	
		691		692		693	
		694		695		696	
		697		698		699	
		700		701		702	
		703		704		705	
		706		707		708	
		709		710		711	
		712		713		714	
		715		716		717	
		718		719		720	
		721		722		723	
		724		725		726	
		727		728		729	
		730		731		732	
		733		734		735	
		736		737		738	
		739		740		741	
		742		743		744	
		745		746		747	
		748		749		750	
		751		752		753	
		754		755		756	
		757		758		759	
		760		761		762	
		763		764		765	
		766		767		768	
		769		770		771	
		772		773		774	
		775		776		777	
		778		779		780	
		781		782		783	
		784		785		786	
		787		788		789	
		790		791		792	
		793		794		795	
		796		797		798	
		799		800		801	
		802		803		804	
		805		806		807	
		808		809		810	
		811		812		813	
		814		815		816	
		817		818		819	
		820		821		822	
		823		824		825	
		826		827		828	
		829		830		831	
		832		833		834	
		835		836		837	
		838		839		840	
		841		842		843	

产品包装规范

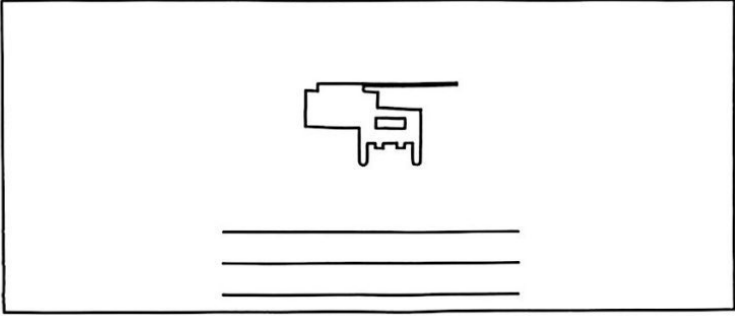
PACKING CRITERION

Date: 2024.10.10

Page: 1 of 1

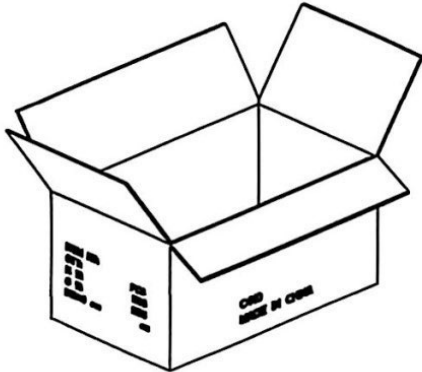
Part Number : AN2450-SNA181004	Revision : A
Name: Antenna	Customer : ALL

1 . Enter PE bag .



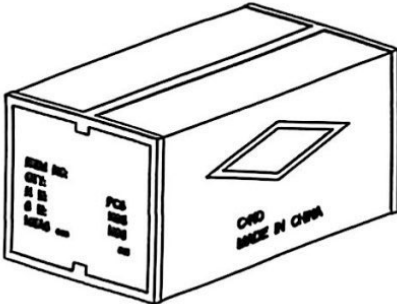
100pcs/ PE bag

2.PACKING .



8000pcs/Carton

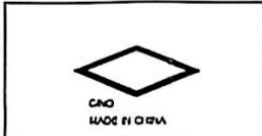
3. SEALING .



SIDE



FRONT



→

Zhanghiyao

APPROVED BY: YCX

CHECKED BY: HC

DESIGNED BY: SY Y