Supplier Name: Shenzhen Kangyuanxin Communication Technology Co., Ltd

#### SPECIFICATION APPROVAL SHEET

Antenna Product Name: FPC Antenna Model: Specifications AMP 6500-LTE-ANT-V01-SC20-A / materials: KYX Brand: Sealed plastic bag packaging, 200PCS per package, cartons Package: Product **FPC** category: 200207015310106 Material Code: Product AMP 6500\_LTE\_FPC ANT -3 mode 13 frequency -V01-No wires -SC20\_A-DIV-KYX

Supplier signature	Customer signature		
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Description:

Supplier contact address: 6Th floor, 21 Guangqian Industrial Zone, Longzhu 3rd Road, Xili Town, Nanshan District, Shenzhen
Supplier business liaison / TEL / FAX: Liyucheng /075586238626/075586238957
Supplier Technical Support Contact /TEL: Qin Xinjian /075586238967

# File Version Information

Category	Date	Version Number	Describe	Recognition	Remarks
Electronic	2018/12/6	V1.0	First Edition	Zhao xiaobo	

NEW DOC	S TECHNOLOGY CO. LIMITED Product Inspection Specification										Number: 201812060	Edition: B 2018/12/6	
NEW PUS	IECI	TINULUGI CU. LIMITED	Process name	Incoming inspection							: II; function: S-2	· ·	MAJ: 0.25 MIN: 1
Material num	umber 200207015310106 Describe AMP 6500_LTE_FPC ANT -3 mode 13 frequency -V01-No wires -SC20_A-DIV-KYX								DIV-KYX	Supplier	KYX		
	Inspection items and standards Graphic:									Graphic:			
Inspection items		Verify Contents		Test criteria	Tool	Frequ ency			Judging CR MA MI		NEW	5310-DIV-ANT-V01 (KYX)	
	1	41.50		±0.2mm								SC20-A	
	2	30.70		±0.2mm	CCD	Submit	100		,,			CZU-A	
Size	3	18.40		±0.2mm	- callipers visual	ted/ap proved			V		12		
	4	9.20		±0.2mm									
		Structure		structure; Back glue, off-type paper, sition and drawing are the same.		Submi							
structure	Appearance Welding disk		No damage, no dirt on the surface, no burrs on the edges		visual	tted/a	IOC		V		AND THE RESIDENCE OF THE PARTY		
appearance			Gold plating, no damage, no oxidation.			pprov ed					• 3	STOOK N	
		Silk Seal	Clear and							13	8 5	ê	
		Stand Bobby	≤3.0		View Recognit	Submit					130	6	En
Function / Performance		Efficiency		1	ion	ted/ap		٧			7.8		The state of the s
	0	pen and short circuit test	No open ci	rcuit between the two plates	multimet er	proved							
	Ble	nding, mixing, short-fitting		Not allow		Submit							
Packaging / marking		Moisture-Proof grade		1	visual	ted/ap				V	Matt	ers needing attentio	n
									1: Unrevised matters are subjudrawings(including preparation	n documents);	·		
material quality	According to the material requirements of the "Product Recognition"								2: The transparent parts are executed according to the transparent parts test standard, and the flame retardant is based on ANSI/UL -94 V-0;  3: This specification is based on NEW POS sampling level: normal appearance test using MIL-STD-105E II, function and size using MIL-STD-105E S-2				
Packaging specifications	According to the packing specifications of the Product Recognition Book												
RoHS&HF	Deci	ision Standard Reference & amp;	; Lt; Specification for Management of Hazardous Substances & amp; amp; Gt; execution								4: The sample of the reference must be a qualified model, pay attention to the effective preservation period of the material; 5: The material meets the requirements for the control of hazardous substance		
Store				-40℃~+85℃	Approve	Countersign	Formulate						

Remarks

Fang zhaoyu

Zhao xiaobo

# Accessories:

number	Specification Name	Version	Date	Publish unit	Remarks
1	Antenna test report	/	2018/8/3	KYX	
2	Antenna Size Report	/	2018/8/3	KYX	
3	Drawing	RB	2018/10/10	KYX	
4	Packaging specifications	RA	2018/10/10	KYX	
5	Installation Operations Guide	/	2018/10/10	KYX	
6	Salt fog test, constant temperature humidity, cold and hot impact test report	/	2018/12/5	KYX	
7	RoHS certificate	/	/	SGS/CTI	

## 4G antenna test report

Company Numbe:HZ			Number: AMP 6500-L			e: 2018. 8. 3		
Reasons for testi	Ing: ■New p		pecification change	□ Process change □ First confirmation  Test method: 1. Assembly the antenna to be tested o the prototype				
Test data		EL16-0TA. 8960/E	5515C. CMW500	dark room a	<ol> <li>Start the prototype on the test fixture in the dark room and establish a connection with the measuring instrument.</li> <li>Test TRP and TIS with test software.</li> </ol>			
	Unit:	dBm	Channel	TRP	TIS			
			18650/650	18.95	-92.81			
		FDD_B2	18900/900	18.86	-92.66			
			19150/1150	18.75	-92.71			
			20000/2000	19.21	-92.69			
		FDD_B4	20175/2175	19.33	-92.58			
			20350/2350	19.67	-93.21			
			20450/2450	14.11	-84.31			
		FDD_B5	20525/2525	14.31	-84.44			
	4G		20600/2600	14.59	-83.69			
	40	FDD_B7	20800/2800	18.25	-91.88			
			21100/3100	18.11	-91.87			
			21400/3400	17.88	-92.11			
			26090/8090	18.55	-92.89			
1		FDD_B25	26365/8365	18.66	-92.18			
1			26640/8640	18.29	-91.59			
			26740/8740	13.41	-84.54			
1		FDD_B26	26865/8865	14.33	-84.87			
L			26990/8990	14.29	-84.67			
			9262/9662	19.28	-105.73			
	3G	B2(W1900)	9400/9800	19.32	-106.81			
ı L			9538/9938	19.27	-106.85			
ı			512	25.69	-104.27			
	2G	PCS1900	661	25.66	-105.57			
L			810	25.42	-105.06			
Electrical tes	st w		1					

Meeting customer needs

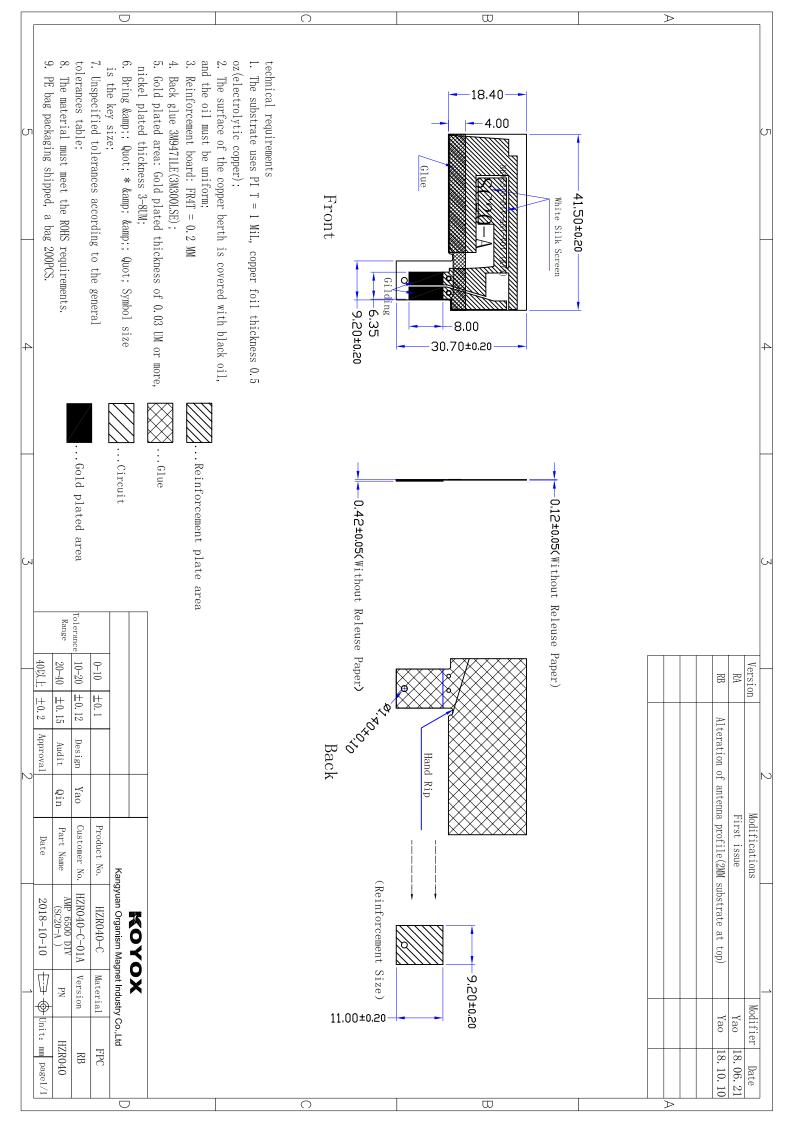
 $\quad \text{findings} \quad$ 

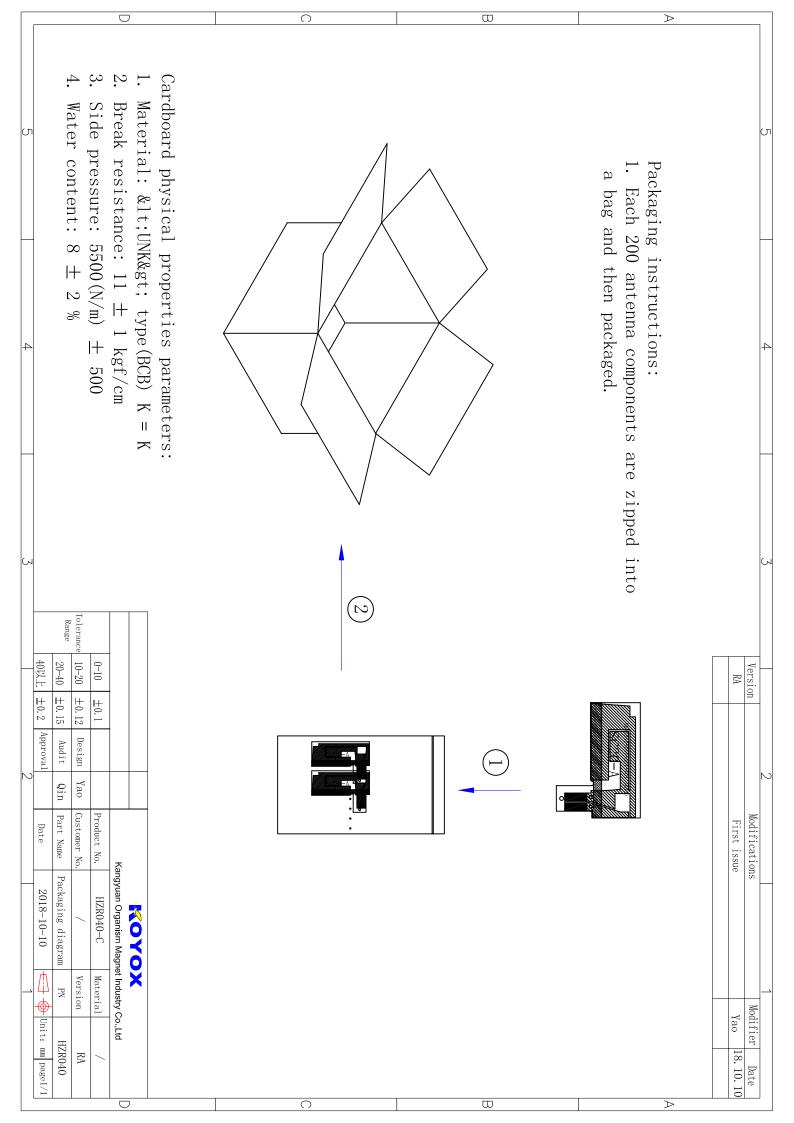
R&D Engineer: Qin Xinjian

# Antenna Size Report

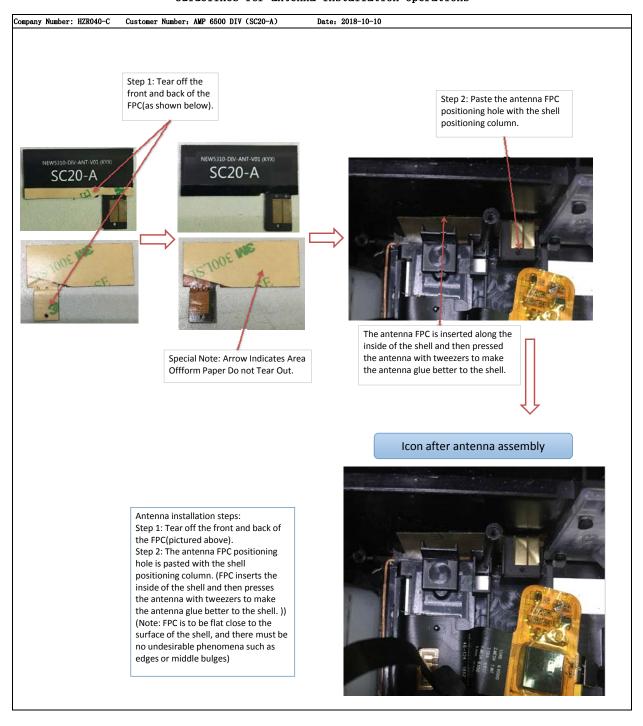
File Number: GC-ESET-001

Company Number: HZRO40-C Customer Number: AMP 6500-LTE-SC20-A-DIV Test date: 2018-8-3								
Reasons for testing: ■New projects □Specification change □Process change □First confirmation								
	specifi	cation	Test	items	Sample 1	Sample 2	Sample 3	
	0.42±	0.05		thickness	0. 424	0. 427	0. 425	
	FPC (0.	2FR4)	Circuit	material	Electrolytic copper	Electrolytic copper	Electrolytic copper	
Divide stan		rance board dard		appearance	No leakage of copper, shearing, oil, etc	No leakage of copper, shearing, oil, etc	No leakage of copper, shearing, oil, etc	
antenna -		Overall assembly						
	$41.5 \pm 0.2$			FPC length	41. 46	41. 48	41. 52	
	$30.7 \pm 0.2$		other	FPC width	30. 72	30. 74	30. 73	
				Line length				
Test conclusion Structural assembly meets custome					customer requirem	nents Struc chang	tural confirmer: Yao gqing	
Final decisio	instru ctions							
n	conclu sion	■a	ccept	□reject	□Conditional ac	ceptance Confirmat	tion: Yao changqing	





#### Guidelines for antenna installation operations



### Shenzhen Kangyuanxin Communication Technology Co., Ltd

### Salt Fog Experimental Report

Customer	HZR	Type of electroplating	Gilding			
trade name	AMP 6500 DIV_SC20-A	Number of samples tested	15PCS			
Test specifications	NSS Neutral Test	Criteria for testing	IPC-TM650			
Solution value	5%NaCl	Temperature	40°C			
Atmospheric pressure		1Mpa				
Spray mode	Continuity	Settlement number (h.80cm)	2m1			
Composition	AASS	Material for goods	Antenna board			
Spray start time.	2018-12-05-10:00	Test End Time	2018-12-06-10:00			
Observation time	Observation					
2018-12-05-10:00	Check for no exceptions					
2018-12-06-10:00	24	hours of continuous sp	oray			
Test:	Zhong haiping	Audit:	Deng faying			
conclusion	Qualified	Approve	Zhang yanmin			

Remarks: Commonly used salt mist test methods are: NSS neutral salt mist test: AASS acid salt mist test, CASSketonic acid acceleration test

The AASS test is to add glacial acid adjustment PH = 3.03.3 to the NSS neutral salt fog test

CASS test is to add 0.26 g / L copper chloride to NSS neutral salt mist test solution.

QR-QA-040A/0

#### Shenzhen Kangyuanxin Communication Technology Co., Ltd

Test Report on Constant Temperature, Cold and Hot Impact

Customer	HZR	Date	2018/12/5	Number	HZR040-C
Trade name	AMP 6500 DIV_SC20-A	Number	15PCS	Test time	24Н
Material	FPC	Supplier	ВҮК		MIL-SDT-202Method017IEC60749-25 JEDEC JESD22-A104-B IEC68-2-1MIL- STD-2168-85

Objective: To test the reliability of the product and the binding force, anti-oxidation and anti-corrosion ability of the coating.

Equipment Name: High and Low Temperature Test Box

#### Laboratory environment:

Temperature	2	45℃	Humidity	85%	Atmosphere		1Mpa		
	Test parameters								
Temperature	ature High temperature 70°C Low temperature Negative 40°C		Tolerance	1℃					
	constant	High	60min	Warming	Ľ,	ōmin			
Time tempera ure		Low	60min	Cooling	5min		Remarks		
Circulate	12	times	Other	Humidity	85%				
Check	separation	No	oxide	No	blistering	No	Ink shedding	No	
Test	stripping	$\geqslant$ 1.0kgf/cm <sup>2</sup>	Wweld	ACC	Baige.	ACC	wear-resisting	ACC	

The ACC was passed and NG was unqualified.

#### Test record:

Product Number	Product Test Results	Judging	
1		Qual:	Qualified
2		Qualified	
3		Qualified	
4		Qualified	
5	Qualifi	Qualified	
6		Qualified	
7		Qualified	
8	degumming, upping, oxidation and appearance damage	Qualified	
9	Qualifi	Qualified	
10		Qualified	
11		Qualified	
12		Qualified	
13		Qualified	
14		Qualified	
15		Qualified	

Tester.: Zhong haiping Audit: Deng faying Approve: Zhang yanmin