



东莞市贤华实业有限公司

Dongguan Xianhua Industrial Co., LTD

Material acknowledgment letter

Client: Shenzhen Gongjin Electronics Co., Ltd.

brand:

Product name: ANTem21 antenna

Material number: 800000000773

Specification/ Internal Antenna,3dbi@2.4GHZ,50ÿ,SUS304,

describe: 21.7*13.9*4,DIP-9.05,AMTEM21(Xianhua)

Date: 2017-11-29



fictional	Review	approve
Ho Tung Sen	Pan Youliang	Li Jiebo

Address: No. 40, Qinghu Road, Qinghutou Village, Tangxia Town, Dongguan City

Tel: 0769-82999981

Fax: 0769-82999985

Approval book list

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东莞市贤华实业有限公司

Dongguan Xianhua Industrial Co., LTD

Sample test report

Date: 2017-11-29

client	HKS61	Model number	HKS61-446	page number	1/2
Product name	ANTem21 antenna	model name	ANTem21	Drawing version	A1
Customer material number	80000000773	material	SUS304	Surface treatment	nickel plating

ý First time sample delivery

ý The second sample delivery

ý The third sample delivery

sequence Number	Drawing size			Measurement tool	Measurement data					determination		Remark
	Specifications	+	-		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	OK	NG	
1	4.00	0.05	0.05	2.5 dimensions	4.02	4.03	4.02	4.02	4.03	ý		
2	3.10	0.10	0.10	2.5 dimensions	3.20	3.18	3.19	3.17	3.19	ý		
3	2.30	0.10	0.10	2.5 dimensions	2.26	2.28	2.25	2.26	2.27	ý		
4	2.80	0.05	0.05	2.5 dimensions	2.81	2.84	2.82	2.83	2.81	ý		
5	1.00	0.05	0.05	2.5 dimensions	0.97	0.98	0.97	0.96	0.97	ý		
6	2.60	0.10	0.10	2.5 dimensions	2.52	2.51	2.50	2.51	2.50	ý		
7	21.70	0.10	0.10	2.5 dimensions	21.72	21.75	21.71	21.73	21.72	ý		
8	2.00	0.05	0.05	2.5 dimensions	2.01	2.00	2.01	1.99	1.99	ý		
9	4.00	0.05	0.05	2.5 dimensions	3.99	4.00	3.98	3.99	4.01	ý		
10	1.50	0.05	0.05	2.5 dimensions	1.49	1.48	1.50	1.49	1.48	ý		
11	2.00	0.05	0.05	2.5 dimensions	2.00	1.99	1.99	1.99	2.00	ý		
12	1.00	0.05	0.05	2.5 dimensions	1.00	1.01	1.00	1.00	1.01	ý		
13	9.05	0.10	0.10	2.5 dimensions	9.06	9.04	9.05	9.04	9.05	ý		
14	1.95	0.05	0.05	2.5 dimensions	1.93	1.94	1.93	1.93	1.94	ý		
15	0.30	0.05	0.05	micrometer	0.299	0.298	0.298	0.299	0.300	ý		
16	2.00	0.05	0.05	2.5	1.99	1.99	2.00	1.99	1.98	ý		
17	2.00	0.05	0.05	dimensions2.5	2.00	2.00	1.99	2.01	2.00	ý		
18	3.50	0.05	0.05	dimensions2.5 dimensions	3.51	3.50	3.49	3.49	3.50	ý		
19	0.30	0.05	0.05	micrometer	0.298	0.297	0.299	0.298	0.300	ý		
20	11.30	0.10	0.10	2.5	11.33	11.34	11.32	11.33	11.34	ý		
21	13.90	0.10	0.10	dimensions2.5	13.90	13.91	13.92	13.90	13.92	ý		
22	4.00	0.05	0.05	dimensions2.5	4.03	4.04	4.03	4.03	4.02	ý		
23	8.30	0.10	0.10	dimensions2.5	8.30	8.32	8.31	8.32	8.30	ý		
24	2.50	0.05	0.05	dimensions2.5 dimensions	2.52	2.53	2.53	2.52	2.51	ý		
25												
26												
27												
28												
29												
30												

Remark:

Engineering: Ho Tung Sen

Reviewer: Pan Youliang

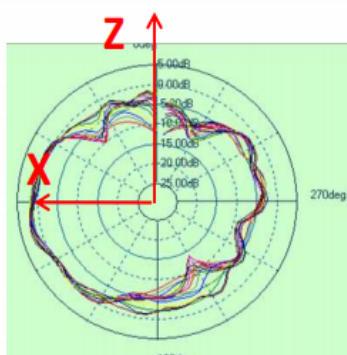
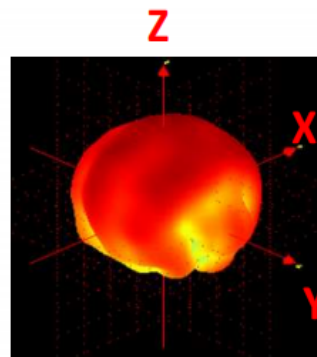
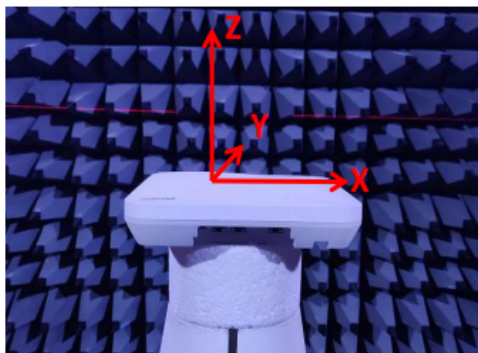
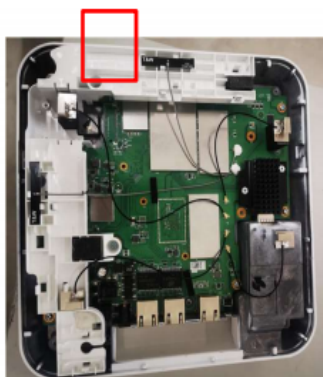
Surveyor: Pan Youliang



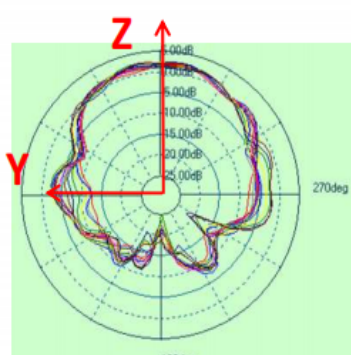
东莞市贤华实业有限公司 Dongguan Xianhua Industrial Co., LTD

CPK report

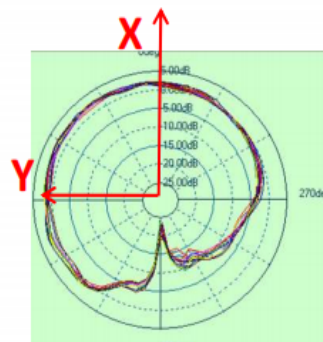
Customer: Shenzhen Gongjin Electronics Co., Ltd.				Detection: Pan Youliang		
	ANTem21 antenna		Material number: 800000000773		Date: 2017-11-29	
	ANTem21		Confirmation: Pan		Date: 2017-11-29	
Product name: Machine type:		Youliang			date:	
Mold number: HKS61-446	9.05	acknowledges: 13.90				
Specification	21.80	9.10	14.00			
21.70 USL Tolerance	LSL Tolerance	9.00	13.80			
1	21.72	9.05	13.90			
2	21.71	9.05	13.90			
3	21.72	9.04	13.91			
4	21.72	9.05	13.90			
5	21.71	9.05	13.90			
6	21.72	9.04	13.92			
7	21.73	9.05	13.91			
8	21.73	9.05	13.90			
9	21.72	9.06	13.91			
10	21.72	9.04	13.90			
11	21.72	9.04	13.92			
12	21.71	9.05	13.92			
13	21.71	9.05	13.90			
14	21.72	9.05	13.90			
15	21.75	9.06	13.91			
16	21.73	9.05	13.91			
17	21.73	9.06	13.91			
18	21.73	9.05	13.90			
19	21.72	9.05	13.90			
20	21.72	9.05	13.92			
twenty one	21.71	9.04	13.90			
twenty two	21.71	9.04	13.91			
twenty three	21.72	9.04	13.90			
twenty four	21.72	9.05	13.92			
25	21.73	9.06	13.90			
26	21.72	9.05	13.91			
27	21.72	9.04	13.91			
28	21.71	9.05	13.90			
29	21.73	9.06	13.93			
30	21.72	9.05	13.90			
Max.	21.75	9.06	13.93	0.00	0.00	0.00
Min	21.71	9.04	13.90	0.00	0.00	0.00
Avarage	21.72	9.05	13.91	#DIV/0!	#DIV/0!	#DIV/0!
Std DEV	0.01	0.01	0.01	#DIV/0!	#DIV/0!	#DIV/0!
CPU	2.98	2.57	3.56	#DIV/0!	#DIV/0!	#DIV/0!
CPL	4.56	2.47	4.12	#DIV/0!	#DIV/0!	#DIV/0!
CPK	2.98	2.47	3.56	#DIV/0!	#DIV/0!	#DIV/0!



H (Theta=90)



E1 (Phi=0)



E2 (Phi=90)

Hardware test report

client's name:		Shenzhen Gongjin Electronics Co., Ltd.		model:	ANTem21 Material name: ANTem21 antenna				
Part No:		800000000773		Specifications: 21.7*13.9*4 Test date: 2017/11/29					
sequence Number	test project	Testing method and tools	Inspection standards	Description of test results				Result judgment	
				Sample 1	Sample 2	Sample 3	Sample 4	OK	NG
1	Visual inspection	of materials	Consistent with order/drawing requirements	OK	OK	OK	OK	OK	
2	colors	Visually Pantone	Consistent with order/drawing requirements, color difference γEy1.0	OK	OK	OK	OK	OK	
3	size calipers		Consistent with the structural drawings, see for details "Sample Reading Report"	OK	OK	OK	OK	OK	
4	flatness plug gauge	rotating platform	Flatness	/	/	/	/	/	
5	hardness test	Hardness Tester	γVickers hardness tester:HV250-290 γRockwell hardness tester: _____	HV275	HV272	HV278	HV277	OK	
6	Hundred grids test	Visually burin 3M glue	Mark 10X10 1mm X on the surface of the test sample 1mm small grid, each scribed line should be as deep as the plated The bottom layer of the membrane; use a brush to remove the crumbs from the test area. Brush the sheet clean; use an adhesive force of 350g/cm2- 400g/cm2 tape (3M No. 600 adhesive paper or Equivalent) firmly stick to the small grid being tested, and Rub the tape firmly with an eraser to increase the glue The contact area and strength between the belt and the measured area; Grasp one end of the tape with your hand and hold it vertically (90 degrees) Quickly pull off the tape at the same position Carry out the same test twice, the total area of glue drop should be less than 5%	OK	OK	OK	OK	OK	
7	Trial fitting and inspection test	Assembly	Assembly tested good	OK	OK	OK	OK	OK	

Inspector: Pan Youliang

Reviewer: Pan Youliang

Approval: Chen Xiaoping

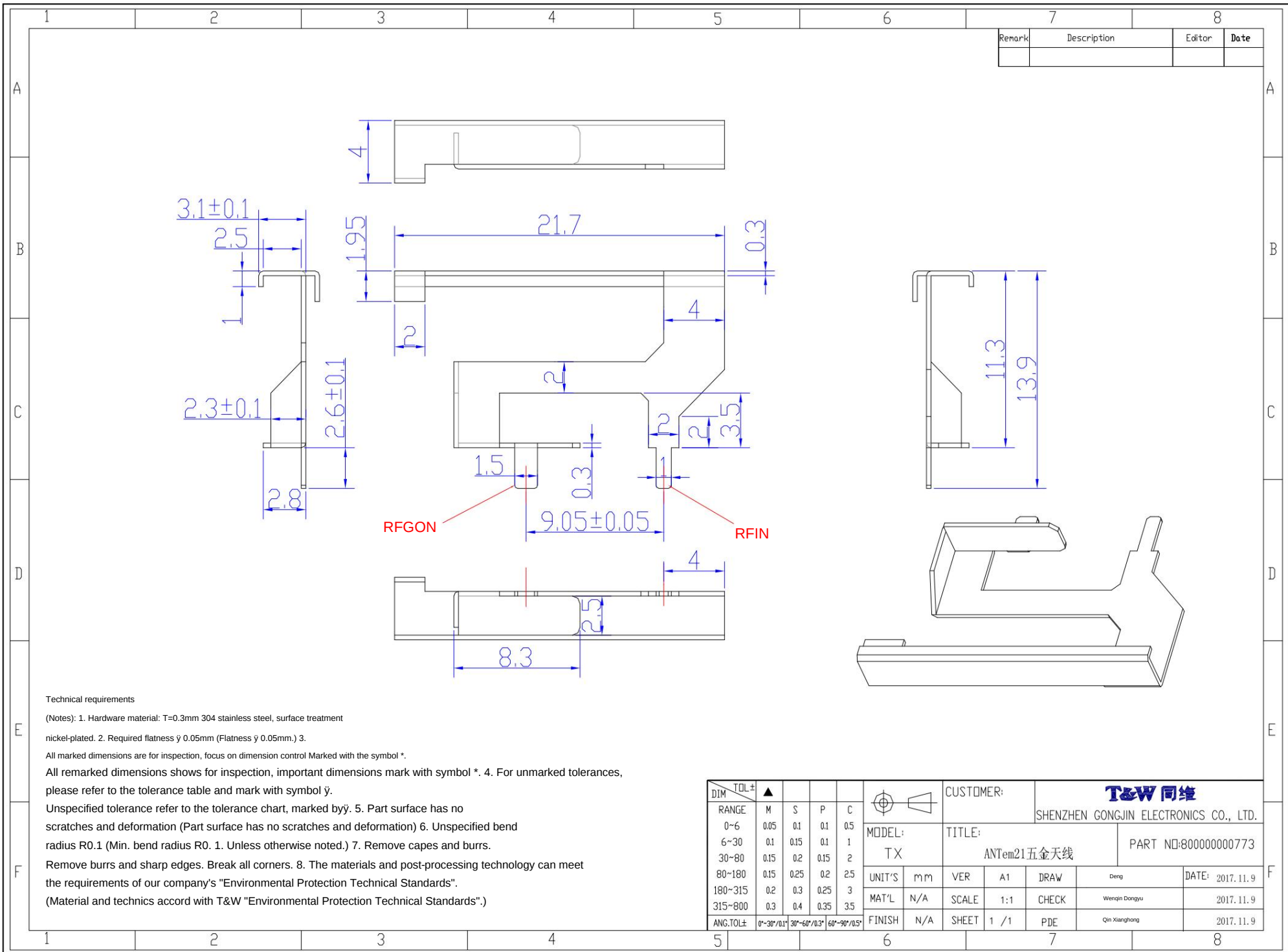


Salt spray test report

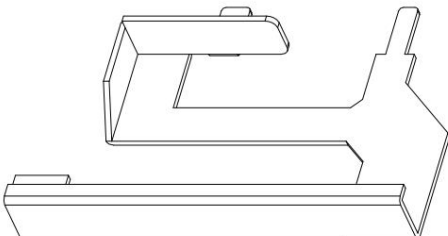
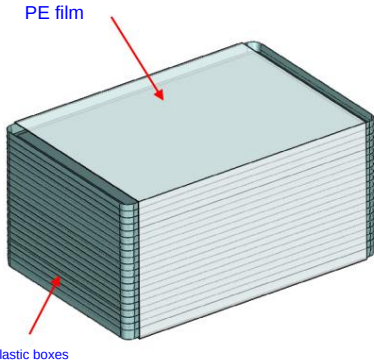
Test conditions: pH value of NaCl salt solution 6.5-7.2					
Intermittent sprayÿ				Continuous sprayÿ	
Test temperature: room temperature 20ÿ-35ÿ					
Raw material manufacturers	Yong Shengqiang	Incoming material time	2017/9/17	Incoming material quantity	10kg
Product name	ANTem21 antenna customer part number 80000000773			Material material	SUS304 1/2H
total test time	24H	Start time 2017-11-17 09:00	Current temperature		25ÿ
Total number of tests	5pcs	Termination time 2017-11-18 09:00	tester		Zhu Haiyan
Test Results:	There is no rust/oxidation on the surface after product testing for 24 hours.				

Test process record

[illegible]



Packing Information

CustomerHKS61				Product name ANTem21 antenna	
Specification model 800000000773				Model number HKS61-446	
Serial number	Product name	Specification		Remarks on	Usage unit
1	blister box 295*395*30	//36 grid//HKS61-002		0.00317 pcs	720pcs/disk
2	Dimensions in carton	400*300*200MM		0.00040pcs	7200pcs/carton
3					
4					
5					
Packaging icon					
					
Product illustration		Each blister tray has 36 compartments, and each compartment contains 20pcs of products. Each tray can hold 720pcs of products			
					
PE film Plastic boxes		净重: 毛重: 箱号: 规格:			
Every 10 plates of characters are stacked staggered and covered with an empty space. Plate, tie it with PE film, and put an inner label on top. 7200pcs/tie		One bundle per box, that is, 7200pcs per box product, the outer box needs to be labeled			



Manufacturer's warranty on the use of raw materials

This is to guarantee that the products used by our company: Dongguan Xianhua Industrial Co., Ltd.

The molding materials are indeed specified in the same dimension drawings.

Details are as follows:

Material name ANTem21 antenna		material number 800000000773	Model used/		
Purchase Order	/Quantity/ Yongshengqiang			Production date/	
Original regulations material grid material	Number				
	Supplier Material		SUS304	Fire rating	/
	ULNO		/	CSANO	/

The above recorded materials are correct. If there are any inaccuracies, our company is willing to take full responsibility.

Here you go

Supplier: Dongguan Xianhua Industrial Co., Ltd.
Person in charge: Pan Youliang
Date: 2017/11/29



REACH directive self-declaration

This is to certify that our _____ Dongguan Xianhua Industrial Co., Ltd.
company's products

The raw material components of the ANTem21 antenna (800000000773) comply with the EU REACH directive.

Hereby prove it! If there is any untruth, our company is willing to bear all responsibilities.

Dongguan Xianhua Industrial Co.,
Ltd. November 29, 2017



Material series:

Product series: ANTEm21

Co-progress coding:

Weight (mg):

Part No 800000000773

Weight (mg): 440

[illegible]

Total mass: 440

Total percentage: 200

*For specific substance composition, please adjust the merging and splitting of cells as needed. More than one substance, please split or merge in the corresponding project.

Person filling in the form:

Supplier name: Dongguan Xianhua Industrial Co., Ltd.

Signature: Ho Tung Sen

contact number:

Contact: 0769-82999981

Date of filling in the form:

Date: 2017/11/29



Material Environmental Substance Questionnaire Table 2

Questionnaire for Environmental Substances(Table 2)

Material name:

Material model/series:

Product Name: ANTem21 Antenna

Product Series: 800000000773

serial number No.	Hazardous substance items (Annex 1) Hazardouse substance List (Annex 1)	Does the product contain Hazardous substance (Y or N)	Substance name Substance Name	in homogeneous in materials content (ppm)	homogeneous material name Homogeneous materials Name	Homogeneous material weight Homogeneous materials Weight	Application area The component	purpose of usage Description of use	Remark Remark
1	REACH173 items (173 SVHC)	N							
2	24 PAHs and BAP (24PAHs&BAP)	N							
3	PFOS&PFOA	N							
4	Halogen 5 17PAEs	N							
5	and others	N							
6	Other intentionally added substances additive) See Gongjin's "Environmental Protection Technical Standards" for others ItemRefer to"environmental technical standards > other items"	N							
7	Materials using ROHS exemption itemsMaterials using ROHS exemptions	N							
*For multiple substances, please split or merge in the corresponding project column. More than one substance, please split or merge in the corresponding project.									

Company name (seal):

Supplier name: Dongguan Xianhua Industrial Co., Ltd.

Person filling in the form:

Signature: Ho Tung Sen

Contact email:

E-mail: xh001@dgxianhua.net

company address:

Address: No. 40, Qinghu Road, Qinghutou Village, Tangxia Town, Dongguan City, Guangdong Province

manager:

Manager: Li Jiebo

Department:

Department: Engineering Department

Date of filling in the form:

Date: 2017/11/29

Our company guarantees that the above data is true and valid. If any changes occur, we will promptly notify Gongjin Company of the changed data.

I guarantee that the information provided is true and accurate. If the data is to be changed, we will inform T&W for the T&W's acceptance before the change take effect.