# **Sample confirmation**

The name of the item is	TS6721A
The name of the material	TS6721A FPC antenna LEFT BT FPC 25.13mm 5mm0.17mm Welding Consumer Welletronics(WTT)
Huaqin material number	HQ260030000V0
Sealed copy	V1. 0
Grid type number	187-449-01A01
Supplier name	Welletronice Communication Technology Co.,Ltd
Delivery address	Building 8, Tongfu Village Industrial Zone, Dalang Community, Dalang Street, Longhua New District, Shenzhen

su	pplier	Receiv	Receiving party				
establishment	date	establishment	date				
Give permission to	date	Give permission to	date				

Consignee confirms

Seal class type	□ Temporary seal □ Formal seal
Standard attribute	□ National standard □ Enterprise standard □ other
Number of temporary seals	2 seals and 12pcs of samples

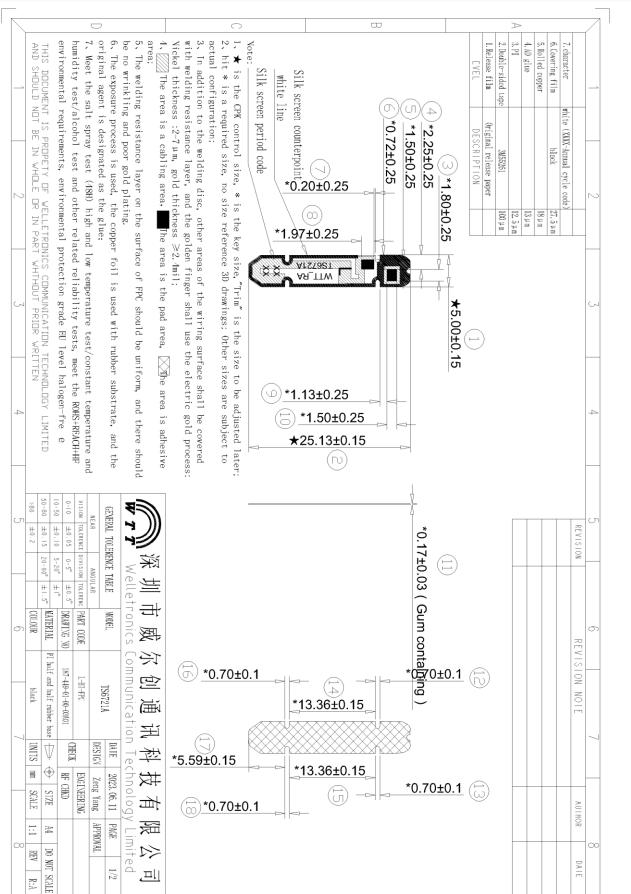
# Instructions for use:

- 1. The basic information of the materials that have reached the seal status is subject to Huaqin Sourcing
- 2. The person in charge of the supplier shall sign and affix the supplier's seal
- 3. After confirmation, Huaqin will affix the control seal and send it back to the supplier
- 4. Documents and samples shall come into force upon confirmation by both parties

# index

1.	Engineering drawing ······ 4
2.	Full-size report ······ 5
3.	Factory manufacturing process drawings ······ 7
4.	Electrical performance report ······ 8
5.	Pilot production improvement report
6.	Process quality control table 11
7.	Reliability test report12
8.	List of main materials ······ 15
9.	ROHS Restricted Substance Composition Questionnaire ······ 16
10.	Ex-factory packing requirements

# Engineering drawing:



 $\bigcirc$ 

 $\geq$ 

All information in this article belongs to Huaqin Co., LTD., and may not be passed on without permission

W

512																												
						18	17	16	15	14	13	12	Ħ	10	9	8	7	6	5	4	ω	2	1	DIM. #				
						0.70	5.59	0.70	13.36	13.36	0.70	0.70	0.17	1.50	1.13	1.97	0.20	0.72	1.50	2.25	1.80	25.13	5.00	DIMENSION	Date		WTT	Vendor
																								DRAWING ZONE			Materi	Materia
						0.10	0.15	0.10	0.15	0.15	0.10	0.10	£0.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.15	0.15	+ TOL.	1/-Jun-23		Material Mark	Material Name
						0.10	0.15	0.10	0.15	0.15	0.10	0.10	0.03	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.15	0.15	- TOL.	-23	ß		FPC
																								NOTE				
						0.71	5.62	0.72	13.40	13.38	0.76	0.71	0.17	1.52	1.15	1.98	0.25	0.75	1.55	2.26	1.81	25.15	5.02	SAMPLE 1			Part	Par
						0.67	5.61	0.71	13.42	13.34	0.72	0.75	0.17	1.53	1.12	1.93	0.21	0.77	1.52	2.24	1.78	25.16	5.03	SAMPLE 2	Μ		Part Name	Part NO
						0.66	5.59	0.69	13.44	13.35	0.73	0.73	0.17	1.49	1.11	1.98	0.23	0.69	1.51	2.29	1.76	25.07	4.99	SAMPLE 3	MEASURED DIMENSION		TS6721A L-BT-FPC	187-449-01A01
						0.72	5.57	0.74	13.42	13.39	0.69	0.74	0.17	1.47	1.14	1.95	0.19	0.79	1.49	2.27	1.81	25.09	4.97	SAMPLE 4	Z		I-FPC	A01
						0.73	5.58	0.70	13.32	13.40	0.67	0.68	0.17	1.45	1.20	1.94	0.18	0.80	1.47	2.18	1.83	25.20	4.96	SAMPLE 5			-	-
						30%	20%	40%	53%	27%	%09	%05	%0	12%	28%	4%	20%	32%	20%	16%	12%	47%	20%	UPPER	% TOLER			Tool Number
						40%	13%	10%	27%	13%	30%	20%	%0	20%	%8	16%	%8	12%	12%	28%	16%	40%	27%	LOWER	% TOLERANCE USED	Rev		Cav. Number
							×						×	×		×	×		×		×			0%-25%		R;A		er
_						×		×	×	×	×	×			×			×		×		×	×	25%-50% 50%-75%				
											~													75%-100%				
																								100%+	DISPOSITION		INCHES	
																								Re-Measure	SILIC			
																								Accept Fix Tool	ž		MILLIMETERS	Unit
																								Accept			IME	
																								With Variance			R	
																								DIMENSION	ACCEPTABLE VARIANCE			CommentsLIYUER
																								+ TOL.	BLE VARI			YUER
																								- TOL.	ANCE			

# Full-size Measurement Report

QD0020 V1.0 All information in this article belongs to Huaqin Co., LTD., and may not be passed on without permission

Full-size report:

5

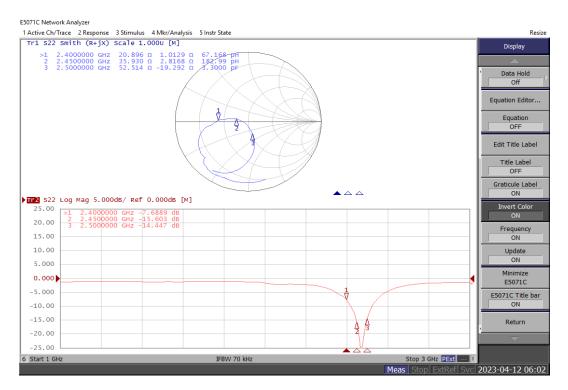
			noporo		
Part Number		9-01A01	Vendor		WTT
Description	TS6721A-	L-BT-FPC	Inspected		
Tool Number			Inches/MM		mm
Cavity			Material Name		FPC
			Material Code		
Revision	R	A	Date	17	-Jun-23
Dim. Designator	1	7			
Nominal	5.00	25.13			
+ Tolerance	0.15	0.15			
- Tolerance	-0.15	-0.15			
Upper Limit	5.15	25.28			
Lower Limit	4.85	24.98			
1	5.02	25.15			
2	5.03	25.13			
3	4.99	25.07			
4	4.97	25.09			
5	4.96	25.20			
6	5.05	25.11			
7	5.02	25.13			
8	5.05	25.10			
9	4.99	25.11			
10	4.97	25.14			
11	4.96	25.16			
12	5.05	25.15			
13	5.02	25.13			
14	5.03	25.07			
15	4.99	25.09			
16	4.97	25.20			
17	4.96	25.11			
18	5.05	25.13			
19	5.02	25.10			
20	5.03	25.11			
21	5.01	25.14			
22	4.97	25.16			
23	4.96	25.13			
24	5.05	25.07			
25	4.95	25.09			
26	4.99	25.20			
27	5.00	25.11			
28	5.05	25.13			
29	5.03	25.10			
30	5.05	25.13			
MAX.	5.05	25.20			
MIN.	4.95	25.07			
AVERAGE	5.01	25.12			
STDEV	0.03	0.04			
CP	1.45	1.40			
Cpk	1.39	1.35			
TOOLING	CMM	CMM			

# CPK Report

Approved By: Kun Yao

Written By: Li Yu Er

# TS6721A L Standing wave/Smith



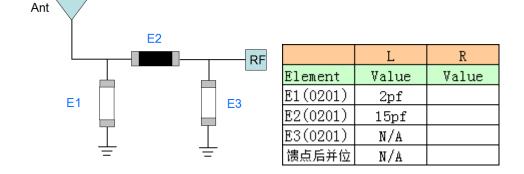
### L Antenna active data

HQ

	左耳	
0	1.74	-83.25
39	2.31	-83.97
78	2.03	-83.51

# Effective Isotropic Sensitivity Summation Test Report (internal)

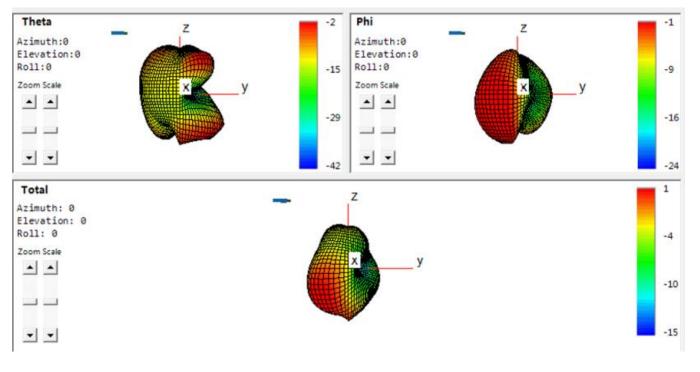
Antenna matching circuit:

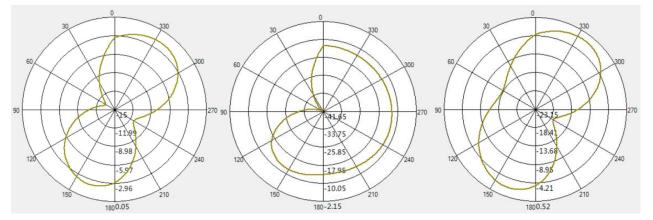


# QD0020

LAntenna passive data

	HEAD-L											
Freq	Effi	Effi	Peak Gain									
(MHz)	dB	(%)										
2400	-10.86	8.2	-2.41									
2410	-9.59	11	-2.3									
2420	-10.32	9.28	-2.44									
2430	-10.58	8.74	-2.47									
2440	-10.71	8.5	-2.52									
2450	-10.51	8.89	-2.43									
2460	-10.46	9	-2.31									
2470	-10.42	9.08	-2.28									
2480	-10.16	9.63	-2.12									
2490	-9.96	10.1	-2.08									
2500	-9.84	10.38	-2									





# QD0020

	Customer	HQ	Written By	LiYu Er		Orig. Date	17-Jun-	23				
	Part Number	187-449-01A01	Revised By)	Kun Yao		Revised Date	17-Jun-	-23				
	Description	TS6721A-L-BT-FPC)	Approved By	TianHua Liu		Approved Date	17-Jun-	23				
			Starti	ng at 09.00 on	Jun 15, 2023							
Date of trial			And en	And end at 09.00 on Jun 17, 2023								
			A total o	f 48 hours of								
	l. Test o	peration status					OK					
	2、Test b	ox temperature					35℃					
	3、Satura	ted Air Bucket Te	nperature				47°C					
	4、Specif		5%									
	5、Specim	en supported angl	8				30°					
	6、Compre	ssed air pressure		1	1		1kg/cm	12				
Experime ntal operatio n		Time	operatio n time	Laboratory thermometer (°C)	Saturated Air Barrel Temperature (で)	compressed air pressure (kg/cm2)	Machine running conditio n	Remarks				
		17:00 on Jun 15	8	35	47	1kg/cm <sup>2</sup>	OK					
		1:00 on Jun 16	16	35	47	1kg/cm <sup>2</sup>	OK					
		9:00 on Jun 16	24	35	47	1kg/cm <sup>2</sup>	OK					
		17:00 on Jun 16	32	35	47	1kg/cm <sup>2</sup>	OK					
		1:00 on Jun 17	40	35	47	1kg/cm <sup>2</sup>	OK					
		9:00 on Jun 17	48	35	47	$1 {\rm kg/cm}^2$	OK					
NO			Post-tes	t status			Determine	Remark				
		No ovidation on (	coating surface an	d no foammg an	d falling off o	f ink	ОК	5PCS				

# Salt spray test test

		0	low tempe							
Customer	HQ		Written By	LiYu Er		Orig. Date	17-Jun-23			
Part Number	1187-449-01A01		Revised By	Kun Yao		Revised Date	17-Jun-23			
Description	TS6721A-L-BT- FPC)		Approved By	TianHua Liu		Approved Date	17-Jun-23			
_	Starting at 08:30 on 11 Jun ,2023									
-	Ending at 08:30 on 12 Jun ,2023									
-		Sta	rting at 08:35 or	n 12 Jun ,2023			Room temperatur			
			test(20°C							
-			lowtemperat etest(-40°C							
	Ending at 10:40 on 14 Jun ,2023									
Test time			urting at 10:45 o		3		Roomtempera retest(20°C			
			ling at 12:45 on arting at 12:50 o		2		HighTempera			
			ling at 12:50 on		2		reandHumidi			
					3		Test(80°C) Roomtempera			
_	Starting at 12:55 on 16 Jun ,2023 Ending at 14:55 on 16 Jun ,2023									
_				l 150H Test						
	Time		Test time(h/m)	Test box temperature(	Airhumidity intestbox(%)	running	Remarks			
_	12-Jun-23	08 :30 A.M	24	°C) 59.91°C		condition OK	High			
_	13-Jun-23	08:30 A.M	48	60.01°C		OK	temperatur section			
-	13-Jun-23	10 :35 A.M	2	20. 07℃		OK	normal temperatur			
_	14-Jun-23	10:40 A.M	24	-19.91		ОК	low			
Experimental operation	15-Jun-23	10 :40 A.M	48	-20.02		ОК	temperatur section			
	15-Jun-23	12 :45 P.M	2	19.97		OK	normal temperatur section			
_	15-Jun-23	12 :50 P.M	24	59.92		ОК	High			
-	16-Jun-23	12 :50 P.M	48	60.04	95	OK	temperatur and high humidity			
	16-Jun-23	14 :55 P.M	2	20.01	95.1	OK	normal temperatur section			
NO		F	ost-test status	·	·	Determine	Remarks			
1		No Foaning	Abnormality On In	nk Surface		ОК	5PCS			

### l I п: . 1. . . . .

Revised By: Kun Yao

Written By: LiYu Er

HO

		The hur	ndred-met	ter test								
Customer	HQ	Written By	LiYu Er	Orig. Date	17-Jun-23							
Part Number	187-449-01A01	Revised By	Kun Yao	Revised Date	17-Jun-23							
Description	TS6721A-L-BT-FPC)	Approved By)	TianHua Liu	Approved Date	17-Jun-23							
Detection Tools	100 grid knife, b	orush, Eraser 3M610	adhesive tap	9								
	1. Will the product surface with grid knife into 10 x 10 mm square, Each stroke should be as deep as the bottom of the coating.											
2. Brush the test area clean of debris.												
Detection method	Detection method 3. Use 3M600 adhesive tape to firmly stick to the small grid tested, And with an eraser vigorously wind the tape, To increase the contact area and strength between the tape and the test area.											
	4. Grab the end of the tape with your hand and pull off the tape quickly in the vertical direction. Three identical tests at the same location.											
	5、Observe the da	maged area of the	coating and ju	udge it.								
Method	Coating or coatir	ng damage (shedding	) area ≤5% is	s qualified, such as	& GT. 5% is not qualified.							
Description of sample phenomena	Coa	ating no glue fall		Determine	ОК							

# QD0020 V1.0

Electroplate	Character ink	Covering film	Back Glue	Base material		Subpart Name					
Jiahongtai	Chuanyu	Fubang	3M	Cailungedi		Material Name					
Nickel-plated gold	ZSR-150 ZM-400WF	Black Covering film	55261	Calendered copper		Material supplier		Description	Part Number	Customer	
ND	ND	ND	ND	ND	Рь						
ND	ND	ND	ND	ND	Cd	Haza	Concentration of hazardous substances in homogeneous materials (unit:ppm)	TS67	187		
ND	ND	ND	ND	ND	Hg	rdous	ıtrati	21A-	7-449	HQ	
ND	ND	ND	ND	ND	Cr <sup>6+</sup>	Hazardous Substances Concentration in Homogeneous Material(UoM:ppm)	.on of	TS6721A-L-BT-FPC	187-449-01A01	Ð	
ND	ND	ND	ND	ND	Cr <sup>6+</sup> PBBS PBDE DEHP	tances Mate	hazardous substance materials (unit:ppm)	-FPC	101		Ma
ND	ND	ND	ND	ND	PBDE	unces Concentratic Material (UoM:ppm)	rdous ials				te
ND	ND	ND	ND	ND		)entra (UoM:p	subs <sup>.</sup> (uni t				$r_1$
ND	ND	ND	ND	ND	DBP	pm)	tances :ppm)				al
ND	ND	ND	ND	ND	BBP	in Ho	s in ł				qı
ND	ND	ND	ND	ND	DIBP	mogen	tomoge	Apı	R	æ	ıa]
157 ND	591 ND	331 ND	ND	ND	2	eous	meous	Approved By	Revised By	Written By	lit
ND	ND	ND	ND	ND	Br			d By	d By	n By	y
CTI	SGS	CTI	SGS	SGS		Test LAB.		Tiar	Kı	E.	Material quality proves
2023-5-5	2022-10-17	2023-3-21	2023-3-17	2023-2-15		Test Date		TianHua Liu	Kun Yao	LiYu Er	S:
ROHS/A2230192427101001E	ETR22A01347M01	ROHS/A2230108006101002E	HF/CANEC23000826901 R0HS/CANEC23000826902	SHAEC23001049102		Test Report No. of Hazardous Material		Approved Dat	Revised Date	Orig. Date	
A223019247710 1001 E(1)(1),pdf	<mark>建</mark> 建 李符-川約258-1 50 ZM-400WF-R0	PO HS + 法建 pdf	िकाराउँ ५.८९% - काराउँ ५.८९% - काराउँ १.९९% - 1.			Test Report Attachment		17-Ju	17-Ju		
御家史全鉄編 pdf	<mark>李神</mark> - 川細Z SR-1 50 ZM-400WF-M	III III III III III III III III	SSDVX series MSDS(CN) pdf	開きる事: 「 MSDS.pdf SDS.pdf		MSDSSappendix MSDS Attachment		17-Jun-23	17-Jun-23	17-Jun-23	

ted substa	nce con	nposi	tio	n ir	nve	sti	gat	ion:				
e-Mail: qc1@wtt-china.com	(Contact Person) : Tianhua Liu								(Names of material	(supplier's Name)		Welletr
a.com	Tianhua Liu	Poly braminated Diphenyl ethers(PBDES)	Poly braminated Biphenyls (PBBS)	Mercury and its compounds	Chromium VI and its compounds	Lead and its compounds	Cadminm and its compounds	Name of hazardous substance	(Mames of material and type): TS6721A-L-BT-FPC	(supplier's Mame) : Welletronics Communication TechnologyCO.	Environment-Concerned Stbstance report	WELL Welletronics Communication TechnologyCO., Ltd
(Date):	(Position) : Q	1000	1000	1000	1000	1000	100	Threshold value ppm (mg/Kg)		(Raw mat	Concern	nologyCO.,]
2023/6/17	Quality Manager			101-440-01001	C107 110 01 01			If yes,which products/part numbers	RoHS test repo	erial Manufactur	ed Stbs	Ltd
	(TEL): 0755-29076623	NO	NO	NO	NO	NO	NO	Do you products contain this substance ( Yes or No )	report NO.	(Raw material Manufacturer) : Welletronics Communication TechnologyCO.,Ltd	tance repo	
	623	\	`	/	/	~	~	Haw much ppm ( mg/kg)		umication Tech	rt	
		2023-4-7	2023-4-7	2023-4-7	2023-4-7	2023-4-7	2023-4-7	Implement schedule		nologyCO.,Ltd		

ROHS restricted substance composition investigation:

HQ

1

QD0020 V1.0

Ex-factory packing requirements:

# Packing

General requirements:				
1. Specify customer name, project name,	, model,			
2. Picture description inner and outer bo	x label, packing method, numbe	r of layers, numb	er of single la	yers, etc
3. Fill in the name and quantity of the ma	aterials used in the packaging in	the remarks colu	imn	
4. Signature and date of supervisor of Qu	uality Department			
		Product Part number:	187	7-449-01A01
	A CONTRACTOR OF	Product Name:	TS67	21A-L-BT-FPC
		Product Version:	85	R ; A
		Packing method:	Pende	ulum protector
Figure 1: Antenna swing film packaging	Figure 2:1000 PCS packed into one bag	Inner box	Floor:	1000pcs bagful
		Outer box	Quantity of cartons:	10000pcs A boxful
	Roda	Note: Each 1000pcs a protective film. There are 10 bas		ed in a PE bag with
Figure 3: Packing boxes	Figure 4: Outer box label	with a total of 1	0000PCS of f	finished products.
		Signature: Zeng Yang 20	23/06/17	
Figure 5: Packing boxes stacked form.				

# **Sample confirmation**

The name of the item is	TS6721A
The name of the material	TS6721A FPC antenna RIGHT BT FPC 25.13mm5mm0.17mm Welding Consumer Welletronics(WTT)
Huaqin material number	H0260030000W0
Sealed copy	V1. 0
Grid type number	187-449-01B03
Supplier name	Welletronice Communication Technology Co.,Ltd
Delivery address	Building 8, Tongfu Village Industrial Zone, Dalang Community, Dalang Street, Longhua New District, Shenzhen

	supplier	Rece	eiving party
establishment	date	establishment	date
Give permission to	date	Give permission to	date

# Consignee confirms

Seal class type	□ Temporary seal □ Formal seal
Standard attribute	$\Box$ National standard $\Box$ Enterprise standard $\Box$ other
Number of temporary seals	2 seals and 12pcs of samples

# Instructions for use:

- 1. The basic information of the materials that have reached the seal status is subject to Huaqin Sourcing
- 2. The person in charge of the supplier shall sign and affix the supplier's seal
- 3. After confirmation, Huaqin will affix the control seal and send it back to the supplier
- 4. Documents and samples shall come into force upon confirmation by both parties

3

# index

1.	Engineering drawing ······ 4
2.	Full-size report
3.	Factory manufacturing process drawings7
	Electrical performance report ······ 8
	Pilot production improvement report ······ 10
	Process quality control table
	Reliability test report12
8.	List of main materials
9.	ROHS Restricted Substance Composition Questionnaire
10.	Ex-factory packing requirements

AND SIHL

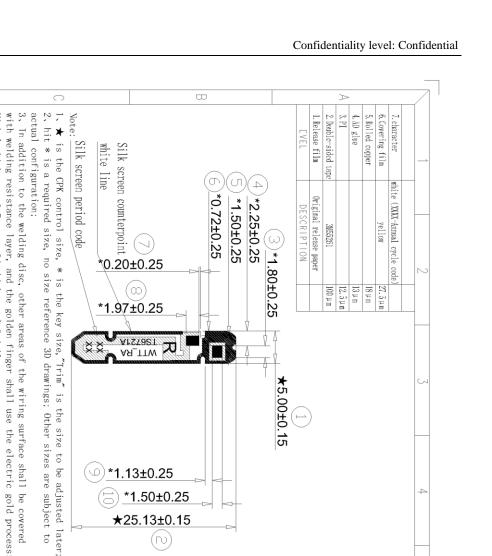
SHOULD

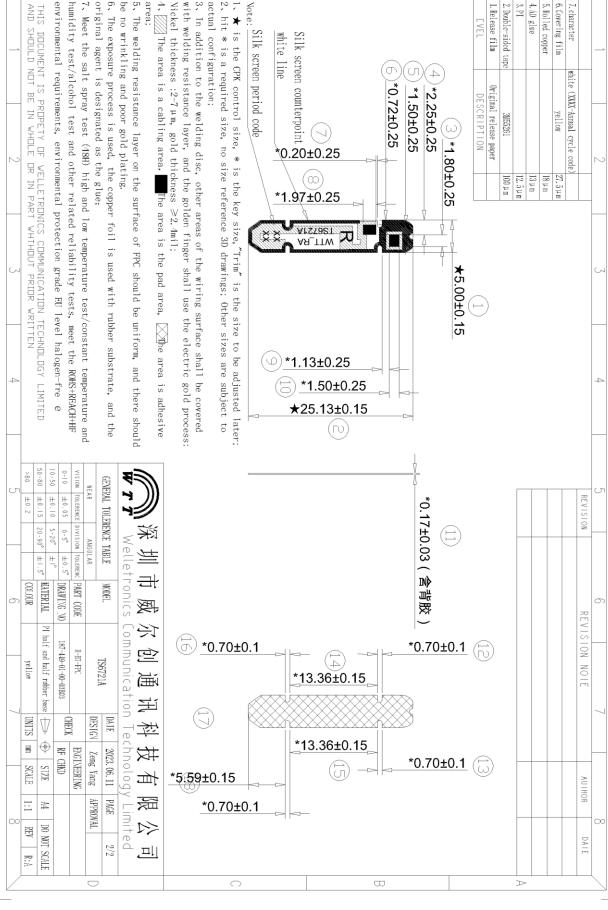
DOCUMENT IS

ς

area; 7

HO





# QD0020 V1.0

All information in this article belongs to Huaqin Co., LTD., and may not be passed on without permission

4

_		-	- 1	por	 	 	 	 																						
								18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	з	2	1	DIM. #				
								0.70	5.59	0.70	13.36	13.36	0.70	0.70	0.17	1.50	1.13	1.97	0.20	0.72	1.50	2.25	1.80	25.13	5.00	DIMENSION	Date		WTT	Vendor
																										DRAWING ZONE			Materi	Materi
								0.10	0.15	0.10	0.15	0.15	0.10	0.10	0.03	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.15	0.15	+ TOL.	1/-Jun-23		Material Mark	Material Name
								0.10	0.15	0.10	0.15	0.15	0.10	0.10	0.03	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.15	0.15	- TOL.	1-23	3		FPC
																										NOTE				
								0.71	5.62	0.72	13.40	13.38	0.76	0.71	0.17	1.52	1.15	1.98	0.25	0.75	1.55	2.26	1.81	25.15	5.02	SAMPLE 1			Part	Pa
								0.67	5.61	0.71	13.42	13.34	0.72	0.75	0.17	1.53	1.12	1.93	0.21	0.77	1.52	2.24	1.78	25.16	5.03	SAMPLE 2	м		Part Name	Part NO
								0.66	5.59	0.69	13.44	13.35	0.73	0.73	0.17	1.49	1.11	1.98	0.23	0.69	1.51	2.29	1.76	25.07	4.99	SAMPLE 3	MEASURED DIMENSION		TS6721A R-BT-FPC	187-449-01B03
								0.72	5.57	0.74	13.42	13.39	0.69	0.74	0.17	1.47	1.14	1.95	0.19	0.79	1.49	2.27	1.81	25.09	4.97	SAMPLE 4	ž		T-FPC	B03
								0.73	5.58	0.70	13.32	13.40	0.67	0.68	0.17	1.45	1.20	1.94	0.18	0.80	1.47	2.18	1.83	25.20	4.96	SAMPLE SAMPLE				_
								30%	20%	40%	53%	27%	60%	50%	0%	12%	28%	4%	20%	32%	20%	16%	12%	47%	20%	UPPER	% TOLER			Tool Number
								40%	13%	10%	27%	13%	%0E	20%	0%	20%	%8	16%	%8	12%	12%	28%	16%	40%	27%	LOWER	% TOLERANCE USED	Rev		Cav. Number
									×						Х	х		×	×		×		×			0%-25%		R;A		er,
								×		×		х					Х			х		х		х	х	25%-50%				
	4										×		X	х												50%-75% 75%-100%				
	+																									100%+	DIS		INCHES	
	+																									Re-Measure	DISPOSITION		E	
	+																									Accept	TION		5	Unit
																										Fix Tool			1	, iii
	T																									Accept With			MILLIMETERS	
																										Variance			ß	
																										DIMENSION	ACCEPTABLE VARIANCE			CommentsLIYUER
																										+ TOL.	<b>3LE VARIA</b>			UER
																										- TOL	NCE			

Full-size report:

HQ

Full-size Measurement Report

QD0020

V1.0

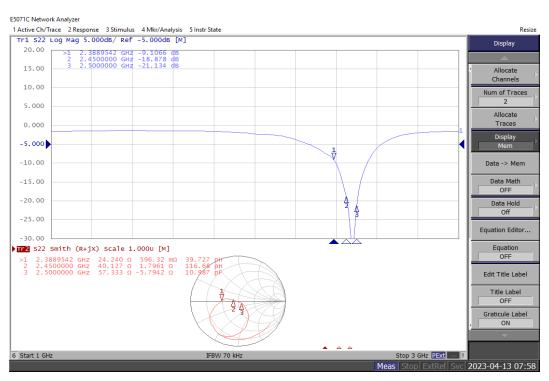
			Report		
Part Number	187-449	9-01B03	Vendor		WTT
Description	TS6721A-	R-BT-FPC	Inspected		
Tool Number			Inches/MM		mm
Cavity			Material Name		FPC
Cavity			Material Code		
Revision	R	A	Date	17	-Jun-23
Dim. Designator	1	7			
Nominal	5.00	25.13			
+ Tolerance	0.15	0.15			
- Tolerance	-0.15	-0.15			
Upper Limit	5.15	25.28			
Lower Limit	4.85	24.98			
1	5.02	25.15			
2	5.03	25.13			
3	4.99	25.07			
4	4.97	25.09			
5	4.96	25.20			
6	5.05	25.11			
7	5.02	25.13			
8	5.05	25.10			
9	4.99	25.11			
10	4.97	25.14			
11	4.96	25.16			
12	5.05	25.15			
13	5.02	25.13			
14	5.03	25.07			
15	4.99	25.09			
16	4.97	25.20			
17	4.96	25.11			
18	5.05	25.13			
19	5.02	25.10			
20	5.03	25.11			
21	5.01	25.14			
22	4.97	25.16			
23	4.96	25.13			
24	5.05	25.07			
25	4.95	25.09			
26	4.99	25.20			
27	5.00	25.11			
28	5.05	25.13			
29	5.03	25.10			
30	5.05	25.13			
MAX.	5.05	25.20			
MIN.	4.95	25.07			
AVERAGE	5.01	25.12			
STDEV	0.03	0.04			
CP	1.45	1.40			
Cpk	1.39	1.35			
TOOLING	CMM	CMM			

# CPK Report

Approved By: Kun Yao

6

# TS6721A R Standing wave/Smith

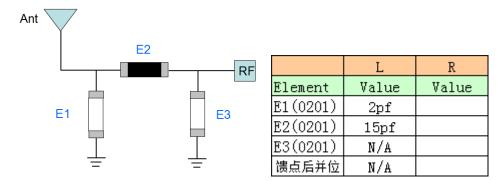


# RAntenna active data

	右耳	
0	1.76	-82.97
39	1.61	-83.21
78	1.11	-82.4

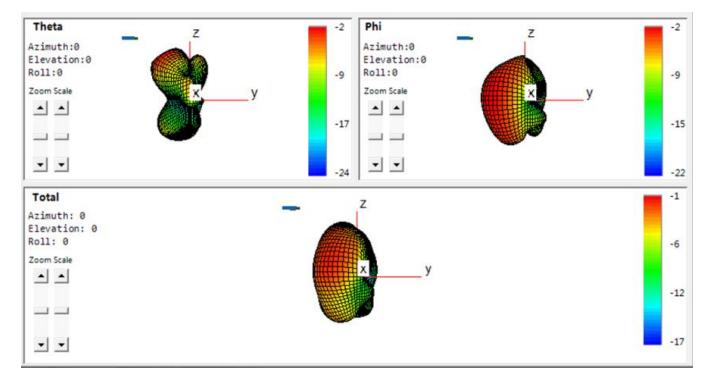
# Effective Isotropic Sensitivity Summation Test Report (internal)

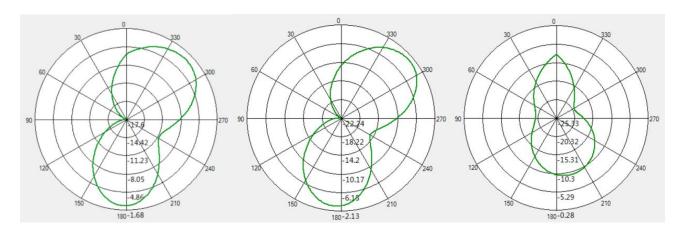
Antenna matching circuit:



QD0020 V1.0 RAntenna passive data

	HEA	D-R			
Freq	Effi	Effi	Peak Gain		
(MHz)	dB	(%)	FEAK Gaill		
2400	-11.01	7.92	-2.63		
2410	-11.41	7.22	-2.6		
2420	-11.35	7.33	-2.55		
2430	-11.2	7.58	-2.41		
2440	-10.84	8.24	-2.33		
2450	-10.68	8.55	-2.24		
2460	-10.64	8.63	-2.1		
2470	-10.4	9.12	-2.05		
2480	-10.25	9.43	-2		
2490	-10.19	9.58	-2.15		
2500	-10.36	9.2	-2.24		





# QD0020

V1.0

All information in this article belongs to Huaqin Co., LTD., and may not be passed on without permission

8

			Salt sp	ray test	test				
	Customer	HQ	Written By	LiYu Er		Orig. Date	17-Jun-	23	
:	Part Number	187-449-01B03	Revised By)	Revised By) Kun Yao Revised Date					
:	Description	TS6721A-R-BT-FPC	Approved By	TianHua Liu	17-Jun-23				
			Startin	ng at 09.00 on	Jun 15, 2023				
Date of trial									
UI IUI		y							
	1. Test o	peration status					OK		
	2、Test b	ox temperature					35℃		
	3、Satura	47℃							
	4、Specif	5%							
	5、Specim		30°						
	6、Compre	ssed air pressure					1kg/cm	12	
Experime ntal operatio n		Time	operatio n time	Laboratory thermometer (°C)	Saturated Air Barrel Temperature (°C)	compressed air pressure (kg/cm2)	Machine running conditio n	Remark	
		17:00 on Jun 15	8	35	47	1kg/cm <sup>2</sup>	OK		
		1:00 on Jun 16	16	35	47	1kg/cm <sup>2</sup>	OK		
		9:00 on Jun 16	24	35	47	1kg/cm <sup>2</sup>	OK		
		17:00 on Jun 16	32	35	47	1kg/cm <sup>2</sup>	OK		
		1:00 on Jun 17	40	35	47	1kg/cm <sup>2</sup>	OK		
		9:00 on Jun 17	48	35	47	$1 {\rm kg/cm}^2$	OK		
NO			Post-test	t status			Determine	Remark	
		OK	5PCS						

V1.0

Customer	HQ		low temper	LiYu Er		Orig. Date	17-Jun-23						
Part Number	187-449-01B03		Revised By	Kun Yao		Revised Date	17-Jun-23						
Description	TS6721A-R-BT-FPC		Approved By			Approved Date	17-Jun-23						
	Starting at 08:30 on 11 Jun ,2023 Ending at 08:30 on 12 Jun ,2023												
	Starting at 08:35 on 12 Jun ,2023												
	Ending at 10:35 on 12 Jun ,2023												
			test(20°C) lowtemperatu										
			etest(-40℃										
Test time			Roomtemperat										
			retest(20℃										
			HighTemperat reandHumidit										
			Test(80℃)										
	Starting at 12:55 on 16 Jun ,2023 Ending at 14:55 on 16 Jun ,2023												
		Total 150H Test											
			10121	Test box	A : 1 : 1 : +	Machine							
	Time		Test time( $h/m$ )	temperature( ℃)	Airhumidity intestbox(%)	running condition	Remarks						
	12-Jun-23	08 :30 A.M	24	59.91℃		OK	High						
	13-Jun-23	08:30 A.M	48	60.01℃		OK	temperature section						
	13-Jun-23	10 :35 A.M	2	20.07℃		OK	normal temperature						
	14-Jun-23	10:40 A.M	24	-19.91		OK	low						
Experimental operation	15-Jun-23	10 :40 A.M	48	-20.02		OK	temperature section						
	15-Jun-23	12 :45 P.M	2	19.97		OK	normal temperature section						
	15-Jun-23	12 :50 P.M	24	59.92		OK	High						
	16-Jun-23	12 :50 P.M	48	60.04	95	OK	temperature and high humidity						
	16-Jun-23	14 :55 P.M	2	20.01	95.1	OK	normal temperature section						
NO		Р	ost-test status			Determine	Remarks						
		No Foaning	Abnormality On Ir	nk Surface		OK	5PCS						

### L 1 113 1 .

Revised By: Kun Yao

1

1

The hundred-meter test									
Customer	HQ	Written By	LiYu Er	Orig. Date	17-Jun-23				
Part Number	187-449-01B03	Revised By	Kun Yao	Revised Date	17-Jun-23				
Description	TS6721A-R-BT-FPC	Approved By)	TianHua Liu	Approved Date	17-Jun-23				
Detection Tools	100 grid knife, brush, Eraser 3M610 adhesive tape								
	1. Will the product surface with grid knife into 10 x 10 mm square, Each stroke should be as deep as bottom of the coating.								
	2. Brush the test area clean of debris.								
Detection method	3. Use 3M600 adhesive tape to firmly stick to the small grid tested, And with an eraser vigorously wipe the tape, To increase the contact area and strength between the tape and the test area.								
	4. Grab the end of the tape with your hand and pull off the tape quickly in the vertical direction. Three identical tests at the same location.								
	5、Observe the damaged area of the coating and judge it.								
Method Coating or coating damage (shedding) area $\leqslant$ 5% is qualified, such as & GT. 5% is not qualified.									
Description of sample phenomena	Coating no glue tall Determine (DK								

List of main materials:

Electroplate	Character ink	Covering film	Back Glue	Base material		Subpart Name					
Jiahongtai	Chuanyu	Fubang	3М	Cailungedi		Material Name					
Nickel-plated gold	ZSR-150 ZM-400WF	Yellow Covering film	55261	Calendered copper		Material supplier		Description	Part Number	Customer	
ND	ND	ND	ND	ND	Рь						
ND	ND	ND	ND	ND	Cd	Haza	Conce	TS6	18		
ND	ND	ND	ND	ND	Hg	ardous	ntrat	721A-	7-44	- -	
ND	ND	ND	ND	ND	Cr <sup>6+</sup>	Hazardous Substances Concentration in Homogeneous Material (UoM:ppm)	Concentration of hazardous substances in homogeneous materials (unit:ppm)	TS6721A-R-BT-FPC	187-449-01B03	HQ	
ND	ND	ND	ND	ND	PBBS	itance Mat	f haza matei	-FPC	B03		Ma
ND	ND	ND	ND	ND	PBBS PBDE DEHP	s Con erial	nrdous				ate
ND	ND	ND	ND	ND	DEHP	mces Concentratic Material (UoM:ppm)	'hazardous substance materials (unit:ppm)				ri.
ND	ND	ND	ND	ND	DBP	ation	:tance :ppm)				al
ND	ND	ND	ND	ND	BBP	in Ho	s in				q
ND	ND	ND	ND	ND	DIBP	mogen	homoge	Ap	R	-5	ua]
157 ND	591	331	ND	ND	Cl	eous	sneous	Approved By	Revised By	Written By	li:
ND	ND	ND	ND	ND	Br			:d By	∶d By	n By	Y
CTI	SGS	CTI	SGS	SGS		Test LAB.		Tiar	Ku		Material quality proves
2023-5-5	2022-10-17	2023-3-21	2023-3-17	2023-2-15		Test Date		TianHua Liu	Kun Yao	LiYu Er	S.
ROHS/A2230192427101001E	ETR22A01347M01	ROHS/A2230108006101001E	HF/CANEC23000826901 ROHS/CANEC23000826902	SHAEC23001049102		Test Report No. of Hazardous Material		Approved Dat	Revised Date	Orig. Date	
A228019242710 1001 E(1)(1).pdf	1000 ★件:川約258-1 50 ZM-400WF-み	ROHS+商耕種	(6005 - Carlos (1999) 1990 - Carlos (1990) 1990 - C			Test Report Attachment		17-J	17-J		
です。 初回記字会教編 pd f	● 本符・JIHWZ SR-1 S0 ZM-400WF-M	です。 DS.pdf	55.2XX series MSDS(CN).pdf	御心密幕中 MSDS.p.df		MSDSappendix MSDS Attachment		17-Jun-23	17-Jun-23	17-Jun-23	

1

# QD0020

V1.0

ted substa	ince cor	npositio	n inve	estigat	ion:				
e-Mail: qc1@wtt-china.com	(Contact Person) : Tianhua Liu					(Names of material	(supplier's Name)		Welletr
com	ianhua Liu	Poly bramjnated Biphenyls (PBBS) Poly bramjnated Diphenyl ethers(PBDES)	Chromium VI and its compounds Mercury and its compounds	Cadminm and its compounds Lead and its compounds	Name of hazardous substance	(Names of material and type): TS6721A-R-BT-FPC	(supplier's Name) : Welletronics Communication TechnologyCO.	Environment-Concerned Stbstance report	WELL Welletronics Communication TechnologyCO., Ltd
(Date) : 	(Position) : Quality Manage:	1000 1000	1000 1000	100 1000	Threshold value ppm (mg/Kg)		(Raw mat	Concern	nologyCO.,
2023/6/17	uality Manager		S187-448-01A01		If yes,which products/part numbers	RoHS test report NO.	erial Manufactur	ed Stbs	Ltd
	(TEL): 0755-29076623	NO	NO	NO	Do you products contain this substance (Yes or No)	vrt NO.	(Raw material Manufacturer) : Welletronics Communication TechnologyCO.,Ltd	tance repo	
	623	``	~ ~	~ ~	Haw much ppm ( mg/kg)		unication Tech	rt	
		2023-4-7 2023-4-7	2023-4-7 2023-4-7	2023-4-7 2023-4-7	Implement schedule		nologyCO.,Ltd		

HQ

1

QD0020 V1.0

Ex-factory packing requirements:

# Packing

General requirements:					
1. Specify customer name, project name	e, model,				
2. Picture description inner and outer be	ox label, packing method, numbe	r of layers, numb	er of single la	yers, etc	
3. Fill in the name and quantity of the m	naterials used in the packaging in	the remarks colu	imn		
4. Signature and date of supervisor of C	Quality Department				
		Product 187-449-01B03 Part number:			
	A STATISTICS OF THE STATE	Product Name:	TS6721A-R-BT-FPC		
		Product Version:	30	R ; A	
		Packing method:	Pende	ulum protector	
Figure 1: Antenna swing film packaging	Figure 2:1000 PCS packed into one bag	Inner box	Floor:	1000pcs bagful	
		Outer box	Quantity of cartons:	10000pcs A boxful	
	Robert	Note: Each 1000pcs a protective film. There are 10 bas		ed in a PE bag with	
Figure 3: Packing boxes	Figure 4: Outer box label	with a total of 1	0000PCS of t	finished products.	
		Signature: Zeng Yang 20	23/06/17		
Figure 5: Packing boxes stacked form.					