Shenzhen Yishengbang Technology Co., LTD Sample acceptance letter SPECIFICATION FOR APPROVAL

The name of the company:	Shenzhen MADIGI Electronic Technology Co., Ltd.
The material code:	2. 18. 0285
specifications:	NUCRL01
Admitted to date:	
The name of the supplie	r: <u>Shenzhen Yishengbang Technology Co., Ltd</u>
Supplier standard type	number: WIFI MAIN:SLK-MDJ-T4310Z-L-100IV-B

Admit signature							
For acceptance by the contractor		Shenzhen MADIGI Electronic Technology Co., Ltd					
The engineer	The rev	iewer	approved	The engineer	The revie		approved
Shi lian Chen	Zen H	uang	Meicai lin				
Signed and	d and sealed Signed and sealed						
date		2021-	8-29	date			
instructions: 🗆 accept 🗆 Conditional acceptance							
note:							

The name of the supplier: Shenzhen Yishengbang Technology Co., LTD Supplier address: 608, Building B, Shenzhen Qianwan Hard Technology Industrial Park, Bao 'an District, Shenzhen

telephone: 18025305599 telephone: 18666299104

WIFI MAIN Antenna (T4310Z)

1. Explanation of Product number:



Product Code:

(1) Customer:

MDJ:MADIGI

(2) Project:

T4310Z: SLK-MDJ-T4310Z (WIFI MAIN antenna)

(3) Welding Position

L: Left

(4) Cable Length:

100IV: 100*1.13MM Four generations of original factory terminals

(5)Cable Color

B: Black

2. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

3. Applications

- * IEEE802.11 (a/b/g/n)
- * Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

4. Description

Holy bond's metal antenna series are specially designed for WIFI (802.11 a/b/g/n) applications. Based on Holy bond's proprietary design and processes, this metal antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

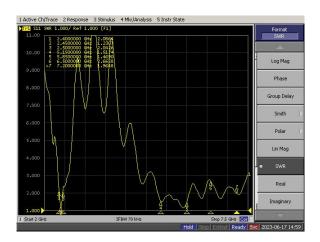
5. Electrical Specifications

5-1

Characteristics	Specifications	Unit
Outline Dimensions	43x10.06x 0.4	mm
Center Frequency	2.4-2.5/5.15-7.2	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	

5-2.

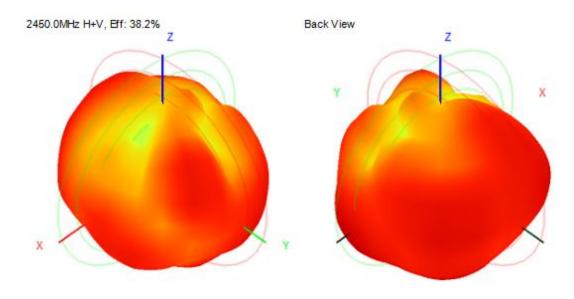
VSWR S11

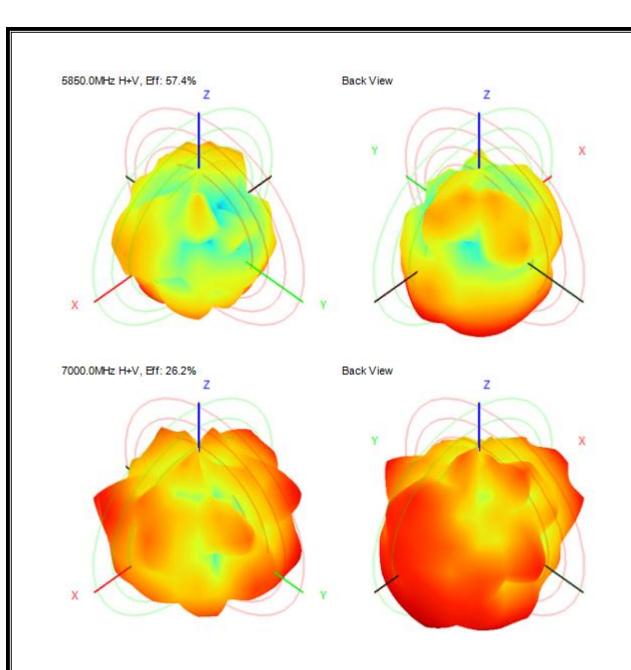




5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-5.47	-0.52	28.36
2410.0	-4.75	0.10	33.53
2420.0	-4.12	0.46	38.70
2430.0	-4.02	0.61	39.62
2440.0	-4.05	0.78	39.40
2450.0	-4.18	1.32	38.16
2460.0	-4.15	1.27	38.49
2470.0	-4.60	0.92	34.67
2480.0	-4.57	0.97	34.89
2490.0	-4.89	0.75	32.43
2500.0	-5.51	0.18	28.09
5150.0	-3.79	2.06	41.77
5350.0	-3.67	2.25	42.93
5750.0	-2.83	3.22	52.07
5850.0	-2.41	3.38	57.40
6100.0	-4.18	2.70	38.21
6800.0	-5.65	1.63	27.24
7000.0	-5.81	1.21	26.24





5.4 Salt spray test

Test item	Salt spray test	
Product specification model	SLK-MDJ-T4310Z-L-100IV-B	Test quantity: 5PCS
Test time: 2023-6-19)	Completed: 2023-6-20

Test/inspection equipment:

- 1. HY-60D Salt spray tester
- 2. HP-8753ES Network analyzer

Test/inspection conditions:

- 1. The temperature in the salt spray chamber is $35\pm2\,^\circ$ C. The temperature of the laboratory is $22\text{--}30\,^\circ$ C
- 2. The sedimentation rate of salt spray after 24H spray is 1-2ML/h on an 80cm area. The concentration of sodium chloride is 50 ± 10 g/L and the PH value is 50 ± 10 g/L It is 6.5/7.2

criterion:

- 1. The electrical test meets the standard requirements: the voltage standing wave ratio test passes;
- 2. Metal surface coating without oxidation, peeling, crack, separation and other bad; Non-metallic parts without discoloration, deformation, degumming, cracking and other bad

C 11	F -1	Dad Janaintian
Sample number	Evaluation level	Bad description
1	Up to standard	no
2	Up to standard	no
3	Up to standard	no
4	Up to standard	no
5	Up to standard	no

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1 - 5 - 7	1115	DEC. 1. TOTA	(112)		. () •
1000/	TILO	PCCCIOII	C C	10.	T OII •

Up to standard □ Below standard

Tester: Xinvuan Wang	Audit: Wang Guohang	Approved by: Guo Liang

☐ Leave unjudged

5.5 Constant temperature and humidity test

Test item	Constant temperature and humidity test			
Product	SLK-MDJ-T4310Z-L-100IV-B	Test quantity: 5PCS		
specification model				
Test time: 2023-6-19 Completed:				
		2023-6-20		
Test/inspection equipment:				
1. Programmable constant temperature and humidity test chamber				
2. HP-8753ES Network analyzer				

Test/inspection conditions:

- 2.+80±2°C 85-90%RH /-30±2°C 0%RH 2 hours a cycle time of 24H

criterion:

- 1. The electrical test meets the standard requirements: the voltage standing wave ratio test passes;;
- 2. Metal surface coating without oxidation, peeling, crack, separation and other bad; Non-metallic parts without discoloration, deformation, degumming, cracking and other bad

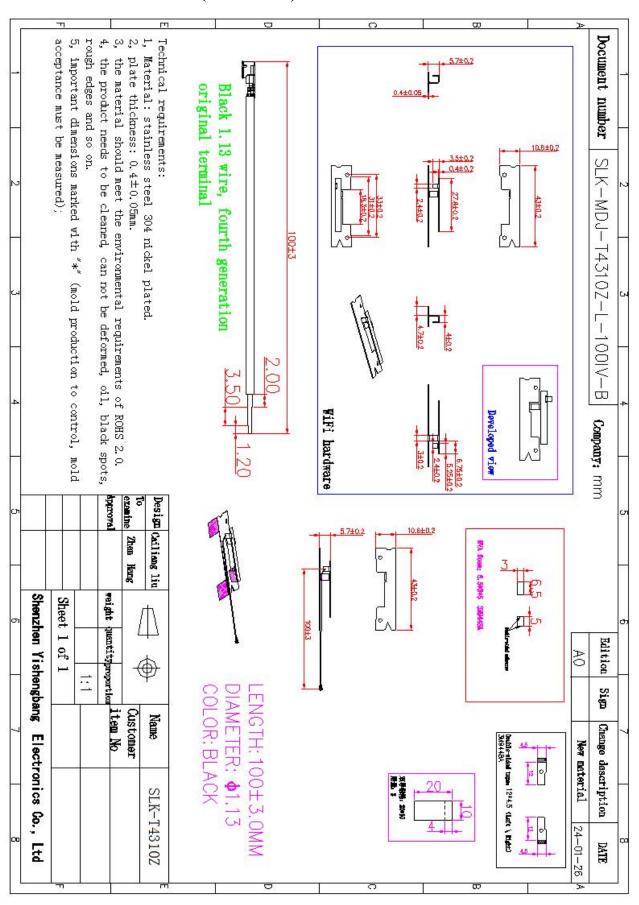
Sample number	Evaluation level	Bad description
1	Up to standard	no
2	Up to standard	no
3	Up to standard	no
4	Up to standard	no
5	Up to standard	no

Test/inspection decision	on:	
Up to standard	☐ Below standard	☐ Leave unjudged
Tester: Xinyuan Wang	Audit: Wang Guohang	Approved by: Guo Liang

5.6 Tension test

Test item	Tension test			
Product	SLK-MDJ-T4310Z-L-	100IV-B	Test quan	tity: 5PCS
specification model				
Test time: 2023-6-20)		Completed	: 2023-6-20
Test/inspection e	equipment:			
1. Tension tester				
Test/inspection o	conditions:			
1. Temperature: 18-25℃				
2. Humidity ≤ 70%RH				
Test result: Passed				
item Ma	intenance force betwee	en the terminal	and the RF cal	ole ≥1kgf
Number of tests	1 2	3	4	5
Test result 1	.22 1.18	1.24	1.27	1.26
Test/inspection decision:				
Up to standard	□ Below standa	ard	☐ Leave un	judged ———————————————————————————————————
Tester: Xinyuan Wang	g Audit: Wang	Guohang	Approved b	y: Guo Liang

6.Antenna Dimensions (unit: mm)



8. Material composition and harmful substances table

No.	Material name	Describe	Testing organizatio n	Authentication code	Report test date	State
		Copper-clad substrate	SGS	CHAEC23001049108	2023/2/15	Effective
1	FPC	Nickel coating	СТІ	A2230400553101002E	2023/8/9	Effective
		3M adhesive	SGS	SHAEC2217569403	2023/1/4	Effective
2	Solder wire	Solder wire	SGS	SZXPC23000078404	2023/2/21	Effective
3	RF line	The coverage rate of the shield layer is > 90%	SGS	SZXEC23001776704	2023/8/8	Effective
		Nickel plating	СТІ	A2230400553101002E	2023/8/9	Effective
4	terminal	Gold coating (Thickness ≥ 1um)	СТІ	A2230400553101001E	2023/8/9	Effective
5	Stainless steel 304	SUS304	SGS	SZXEC23000381402	2023/3/29	Effective

9. Outgoing Quality Control

Shenzhen Yi Sheng Bang technology Co., LTD Sample inspection report

Customer name	MADIGI	Order number			Lot number	10			
Production date	6月20日	Specification and model	SLK-MDJ-	T4310Z-L-100IV-B	Check number	10			
item	Check do	escription		determine					
Model number	SLK-MDJ-T43	10Z-L-100IV-B		Up to standard					
appearance		rance is free from and oil stains		Up to standard					
	Antenna bus ler	ngth 100MM±3.0	Up to standard						
dimension	_	antenna is long M±0.2	Up to standard						
	_	intenna wide IM±0.2	Up to standard						
client	1.13 Fourth gen	eration terminals	Up to standard						
Electrical property	Standing v	vave by one	Up to standard						
Inspection mode		□Spot check	√Complete inspection						
Test result	V	Up to standard		□Below standard					
_									

inspector: Wang Guoxing examine: Approved by: Guo Liang

10.CPK

Part Number			Component	WIFI Antenna	
Spec	SLK-MDJ-T431	0Z-L-100IV-B	Material	metal+Cable	
Supplier	Shenzhen Yishengb		Easurement tool	Quadratic element/straighte 2023.6.20	
Measurement Unit	m	m	Easurement date		
Dim. Designator	1	2	3	4	
Nominal	100.00	43. 00	10. 60		
+ Tolerance	3.00	0. 20	0. 20		
- Tolerance	-3.00	-0, 20	-0. 20		
Upper Limit	103. 00	43, 20	10. 80		
Lower Limit	97. 00	42. 80	10. 40		
1	100.00	43. 02	10.64		
2	100.00	43. 05	10.62		
<u>3</u> 4	100.00	43. 02	10.61		
<u>4</u> 5	100. 00 100. 00	42. 90 43. 04	10. 64 10. 59		
<u>5</u> 6	100. 50	43. 04	10. 57		
7	100. 50	43. 01	10. 65		
 8	100.00	43. 02	10. 62		
9	100.00	43. 02	10. 63		
10	100.00	43. 05	10. 65		
11	100.00	43. 07	10.65		
12	100.00	43.02	10. 59		
13	100.00	42.95	10. 58		
14	100.00	43. 01	10.61		
15	100.00	43. 03	10.66		
16	101.00	43. 04	10.64		
17	100.00	42. 96	10.63		
18	100.00	42. 97	10. 58		
19	100.00	43. 07	10. 54 10. 64		
20 21	100. 00 100. 00	43. 02 43. 04	10. 62		
22	100.00	42. 96	10. 66		
23	100.00	42. 98	10. 67		
24	101. 00	43. 03	10. 62		
25	100.00	43. 02	10. 64		
26	100.00	43.07	10. 59		
27	100.00	42.94	10. 55		
28	100.00	42.98	10. 54		
29	100.00	42. 93	10. 64		
MAX.	101. 00	43. 07	10. 67		
MIN.	100.00	42. 90	10. 54		
AVERAGE	100.10	43. 01	10.62		
STDEV	0. 28	0.04	0.04		
CP Cpk	3. 58 3. 45	1. 51 1. 44	1. 84 1. 69		

11.Full size report

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Wangguoxing

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日期Date: 2023. 6.20

全尺寸测量报告Dimension Report

								metal width 10.6	metal length 43.00	RF line length 100MM	尺寸 (DIMENSION)	供应商 Supplier	编码 Code
								10.80	43. 20	103.00	上限 Upper Limit	Shenzhen Yishengbang Electronics Co., Ltd	
		w_ss				v,	2	0.20	0.20	3.00	+ TOL.	hen bang cs Co.,	
								0.20	0.20	3.00	- TOL.	测量工具 Measuring Tool	零件名称 Component
30		80 80				0.1		10.40	42.80	97.00	別不 Lower timil	I.A uring ol	名称 ment
								10.64	43.02	100.00	Test 1	次元	WIFI.
						ev.		10. 62	43. 05	100.00	YA Test 2	二次元和直尺	WIFI Antenna
								10. 61	43. 02	100.00	YA Test 3	测量单位 Measurement Unit	规格 Spec
		87 53	28	- 89				10.64	42.90	100.00	Test 4	单位 ent Unit	č ně
								10. 59	43.04	100.00	Test 5		SLK-MDJ
								10. 57	43.04	100.50	YA Test 6	MOK	SLK-MDJ-T4310Z-L-100TV-B
								10.65	43.01	100.50	Test 7		-100IV-B
			100		7	A)					UPPER≦100%	测量日期 Measurement date	材 料 Material
S 16	5										LOWER≦100%	2023. 6. 20	metal+Cable

12.Packing

Packing job Description (Example)

client:	product:	colour:		
Customer part number:	Part number (P/N):	date: 2021.11.23		
	SLK-FM-2813-M-290I-W			



1. The quality department shall conduct a full inspection of the appearance and performance of a single antenna according to the inspection instructions, and bind each antenna with 50PCS.



2. The production line shall carry out packaging operation according to 200PCS per bag.



4. Seal the box and weigh it, put it into the finished product warehouse, and wait for shipment.



3. According to the customer's label requirements, attach labels and pack the goods $_{\circ}$

Note:

Inner packing: 200PCS per pack

Outer packing: Carton size 380X380X180MM 4000PCS per box.

According to the actual order quantity, the carton size may be different.

According to different customers, make different internal and external packaging labels.

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