SPECIFICATIONS FOR APPROVAL

Customer Name:		
Product Name:	433M Antenna	
Product Model:	IP06	
Part Number:	LJS062201A	
Write By :	Huxuwen	
Issued Date:	2022-03-29	

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL

LEJIN

R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2022/03/29	

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3.Product Specification

A. Electrical Characteristics				
Frequency	433.92MHz±10.0MHz			
VSWR	<2.0			
Efficiency	\geq 20%			
Impedance	50OhmLinear≤2.0dB			
Polarization	Н			
Gain	1.20dBi			
B. Material & Mechanical Characteristic	2S			
Material of RadiatorMetal(Carbon steel)				
Cable Type	N/A			
Connector Type	Soldering(Φ 0.5mm)			
Dimension	Φ4.0*22.0mm			
C. Environmental				
Operation Temperature $-20 \degree C \sim +70 \degree C$				
Storage Temperature	- 30 °C ~ + 85 °C			
Humidity	40%~95%			

4. Test Equipment & Conditions

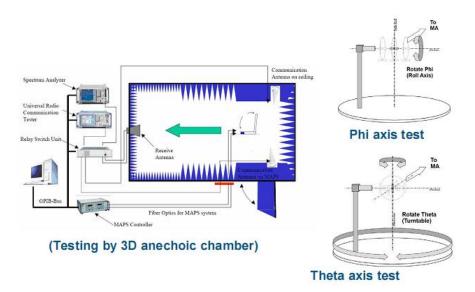
1.Network Analyzers

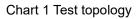
Agilent 8753D/5071C

R&S CMW500 -PT

- 2.HSPA and LTE protocol test set
- 3.Communications Test Set
- 4.3D Chamber Test System

Agilent 8960





5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

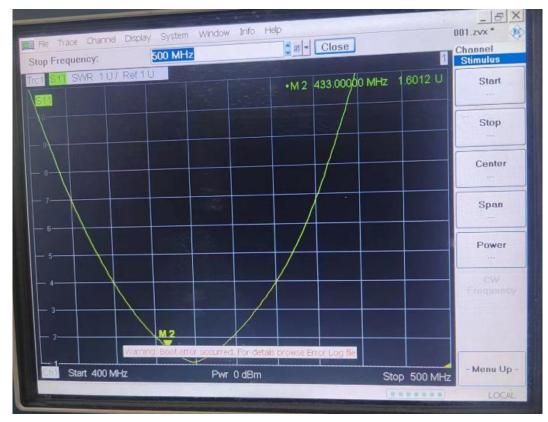
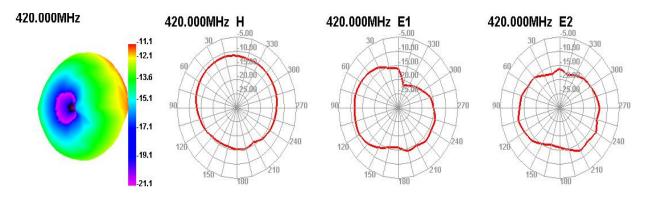


Chart 2 VSWR

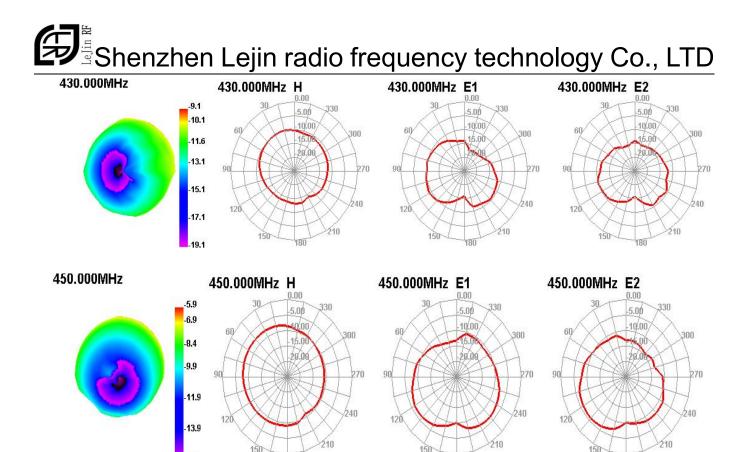
5.2 Efficient and gain.

Passive	Freq(MHz)	410	420	430	440	450
Test For	Effi(%)	17.77	20.12	22.01	18.75	15.21
433M	Gain(dBi)	0.45	0.78	1.20	0.74	0.45

5.3 Radiation pattern.



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6.Reliability Test

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	Test Item	Test condition	Equipment	Specification	Result
		Temperature: -30°C, Time:48hrs		No materia	ıl
	Low Temp.	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	s
1	Storage	Temperature Chamber, keep the temp is 25 $^\circ\!\!\mathbb{C}$ and humidity is	i emp.ærium	allowed.	PASS
1	Test	65% for one hour, then step-down the temp. to $-30^\circ C$ in one	r. Tester	Electronic	17100
	1051	hour, store antenna for44 hours; step-up temp to 25 $^\circ\!\!\!\mathrm{C}$,test		Performance	s
		antenna after 2 hours.		ok .	
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No materia	1
	High	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	s
2	Temp./High	Temperature Chamber, keep the temp is 25 $^\circ\!\!\mathbb{C}$ and humidity is	:	allowed.	PASS
2	Humid	65% for one hour, then step-up the temp. to 80 $^\circ\!\!\mathbb{C}$ and the	r. Tester	Electronic	r ASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	rester	Performance	s
		step-down tempto 25° C,test antenna after 2 hours.		ok .	
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	Salt Sumary	No color change	;
3		condition , Temp: $35\pm2^\circ C$ Humidity: 85% NaCl salt spray :5	Salt-Spray	No appea	rPASS
pray Test	pray rest	\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting	

7.Assemble type(omit)

8. Product Drawing

	D	0	Β	>
Rev 1	A New dra			1 RoHS Compliant G P
Description 2	drawing			22
tion 3			18.0	ω
Date Remark			18. 0± 1. 0	4
Location 5	Image: Shear of the system Shear of the system Third Angle 0~10 ±0.05 0.02 0.02 10~18 ±0.10 Ø Ø0.03 18~30 ±0.12 ⊥ 0.02 30~40 ±0.15 Ø 0.04 40~ ±0.20 Angle 0.4	Revise 1 record 2	2.8±0.1	ບາ
Treatment LJS062201A				6
Unit mm	DIO FREQUE Date T Designed by Checked by Approved by			7
Scale FIT Rev A	2023-03-13 RF			x