SPECIFICATIONS FOR APPROVAL

Customer Name:		深圳市维度创新实业有限公司						
Product Name:		2.4GHz Antenna						
Product Model:		POD7						
Part Number:								
Write By :		Huxuwen						
Issued Date:		2022-11-29						
CUSTOMER								
ENGINEER R&D DEPT		BUSSINE	SS DEPT	APPROVAL				
LEJIN			1					
R&D DEPT		ENGINE	ER DEPT	APPROVAL				
		1						
REV MODIFIED DES		CRIPTION	DATE		REMARK			

2022/11/29

V1.0

Initial Draft Release

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3. Product Specification

A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz					
VSWR	<2.0					
Efficiency	≥40%					
Impedance	50Ohm					
Polarization	Linear					
Gain(2.4GHz)	≤2.1dB					
B. Material & Mechanical Characteristics						
Material of Radiator	FPC(Black),LJWF27A					
Cable Type	Φ1.13mm,L135mm,Black					
Connector Type	IPX1					
Dimension	26.0*18.8mm					
C. Environmental						
Operation Temperature	- 20 °C ~ + 70 °C					
Storage Temperature	- 30 °C ~ + 85 °C					
Humidity	40%~95%					

4.Test Equipment & Conditions

1.Network Analyzers Agilent 8753D/5071C

2.HSPA and LTE protocol test set R&S CMW500 -PT

3.Communications Test Set Agilent 8960

4.3D Chamber Test System

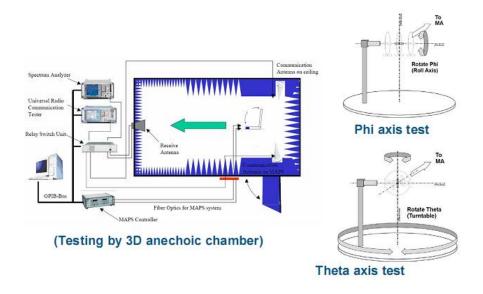


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

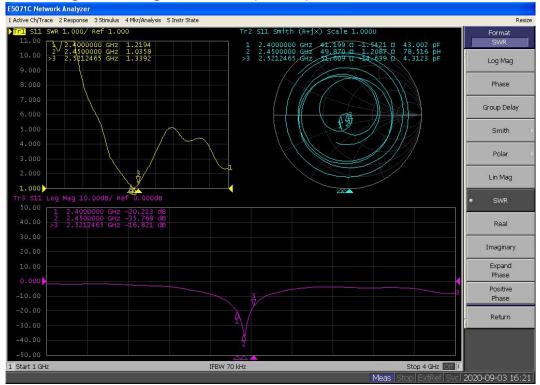
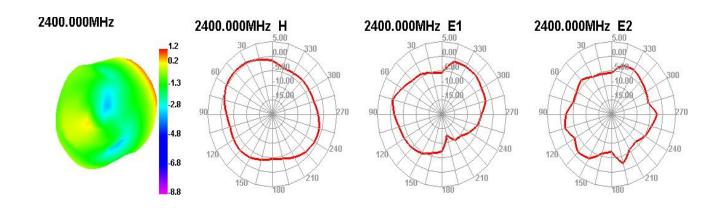


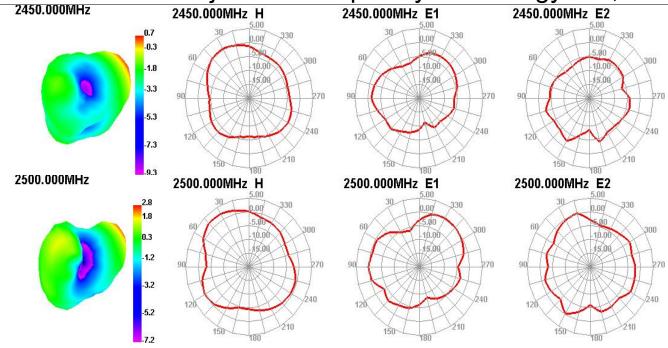
Chart 2 VSWR

5.2 Efficient and gain.

Passive	Freq	(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi	(%)	51. 79	57. 56	56. 67	53. 23	61. 78	50. 16	56. 42	59. 78	58. 55	43. 93	40.30
WIFI BT	Gain	(dBi)	1.89	1.93	1.90	1.95	1.95	1.92	1.92	1.63	2.07	1.73	1.46

5.3 Radiation pattern.





6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30°C, Time:48hrs		No mater	ial
		Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	is
		Temperature Chamber, keep the temp is 25 °C and humidity is	i	allowed.	PASS
		65% for one hour, then step-down the temp. to -30 $^{\circ}\mathrm{C}$ in one	Tester	Electronic	17155
		hour, store antenna for44 hours; step-up temp to 25 $^\circ\mathrm{C}$,test	1 CSICI	Performance	is
		antenna after 2 hours.		ok .	
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No mater	ial
	High	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation	is
2	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	remp.#	allowed.	PASS
	Humid	65% for one hour, then step-up the temp. to $80^\circ\!\mathrm{C}$ and the		Electronic	PASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	Tester	Performance	is
		step-down tempto 25°C,test antenna after 2 hours.		ok .	
	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test	Calt Camer	No color chang	ge
3		condition ,Temp: $35{\pm}2$ °C Humidity: 85% NaCl salt spray :5	Salt-Spray	No appe	ar PASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting	

7.Assemble type.



Shenzhen Lejin radio frequency technology Co., LTD

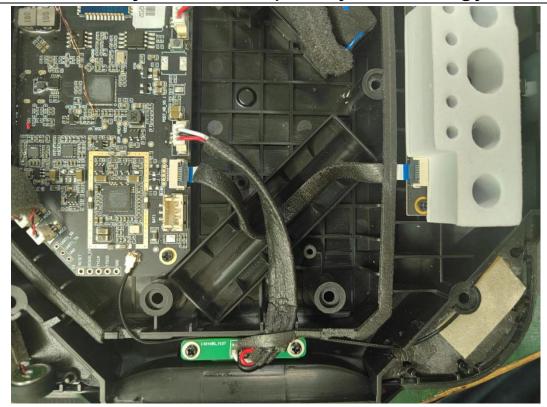


Chart 3 POD3 assemble type

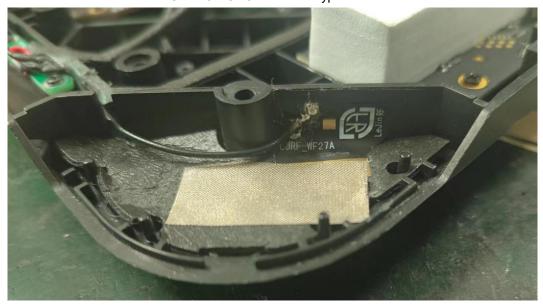


Chart 4 POD3 assemble type(feature)

8.Product Drawing

