Antenna acknowledgment

Customer name: Link Chuangxun Technology Co., LTD

Antenna band: 2.4-2.5

Antenna type: LCX-ZJ1200-003 Onboard antenna

manufacturer: Link Chuangxun Technology Co., LTD

Address: 6th Floor, Building C, Gate 2, Northwest

Edimonto Industrial Park, Songbai Road, Guangming

District, Shenzhen

Date of issue: October 9, 2023

Manufacturer acknowledges column:

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Customer recognition field:

verify	examine	Give permission to	C

-, Antenna specification sheet

Specification

1.Electrical Properties

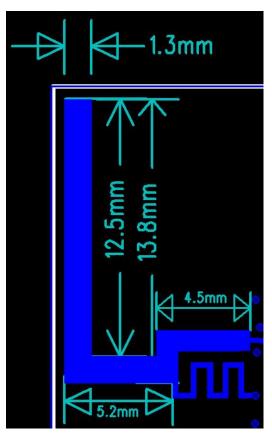
- 1.1 Frequency Range-----2.4-2.5GHz
- 1.2 Impedance----- 50 Ω
- 1.3 VSWR------ 2.0
- 1.4 Return Loss------ 5dB or Less
- 1.5 Radiation----- Omni-directional
- 1.6 Gain ----- 2dBi
- 1.7 Polarization ------ Linear polarization
- 1.8 Admitted Power----- 1W

2. Physical Properties

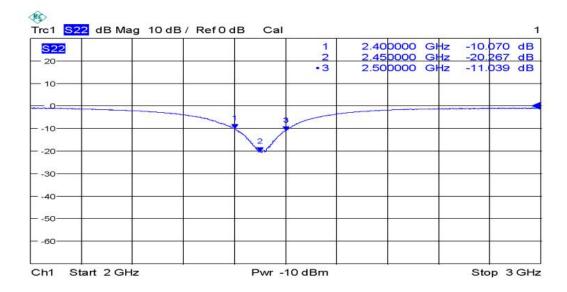
- 2.1 Antenna material-----FR-4

- 2.4 Color----- black

 \Box , Antenna drawing:

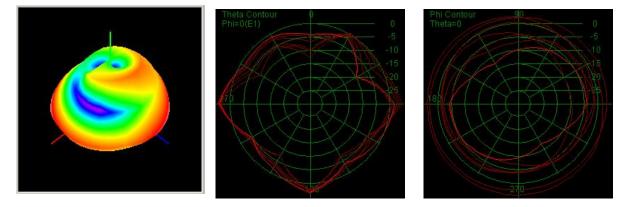


Ξ. Test report
Return loss:



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2D、3DRaditation Pattern:



2.4GHz Gain: 2.21dBi Efficiency:64.5%

四、Material requirement

1. Ontology Body	1.Ontology Body: ■FR-4				
2.Rf line imped	2.Rf line impedance: 50 ohms				
item	Test methods and	Specifications and	Experimental		
	conditions	requirements	result		
1.Characteristic impedance	The antenna characteristic				
	impedance was measured	Impedance 50 EUR ± 10 EUR	ОК		
	by TDR				
2.Standing-wave ratio	At 2.4-2.5GHz, the standing wave ratio is tested with a network analyzer	VSWR standing wave ratio 2.0MAX	ОК		
3.Return loss	At 2.4-2.5GHz, test return	Return loss -10dB	ОК		

	loss with a network	MAX	
	analyzer		
4. gain	The gain and field pattern were tested in a 2.4-2.5GHz microwave darkroom	The gain of the field graph meets the specifications	ОК

七、Reliability test

item	Test methods and conditions	Specifications and requirements	Experimental result
Salt spray test	Brine concentration 50+/-10g/l (about 5%); PH6.5-7.2;Test temperature 35+/-1 degrees; Corrosion time 16H.	Determination method: observation with 20x magnifying glass after test; No adverse oxidation; Instant acceptance	ОК
Vibration test	Frequency 10-2000-10Hz Amplitude 1.52mm 10 times in each X.Y.Z direction	There is no obvious change in appearance The electrical parameters meet the specification error	ОК
Drop test	Fell about 1 meter onto the board	There is no obvious change in appearance The electrical parameters	ОК

		meet the specification	
		error	
Temperature	High temperature: 70 ℃;	There is no obvious	OK
cycle test	Low temperature: -20℃	change in appearance	
	Duration: Each	The electrical parameters	
	temperature lasts 30	meet the specification	
	minutes	error	
	Transfer time: 10		
	minutes		
	Number of cycles: 5		
	Recovery time: 4 to 6hrs		
Constant	Temperature and	There is no obvious	ОК
temperature	humidity: 40 $^{\circ}$ C \pm	change in appearance	
and	2° C,90-95%RH	The electrical parameters	
humidity	Duration: 500hrs	meet the specification	
test	Recovery time: 4 to 6hrs	error	
	Test time: 240 & 500hrs		
High	Temperature: 85° C	There is no obvious	OK
temperature	Duration: 240hrs	change in appearance	
test	Recovery time: 4 to 6hrs	The electrical parameters	
	Test time: 240 hrs	meet the specification	
		error	
Low	Temperature: -20° C	There is no obvious	OK
temperature	Duration: 240hrs	change in appearance	
test	Recovery time: 4 to 6hrs	The electrical parameters	
	Test time: 240 hrs	meet the specification	
		error	