Shenzhen Kinghelm Electronics Co., Ltd

868MHZ(2dBi) Antenna

Specification Of Approval

Customer		Frequency Band	868MHz
Product Name	858MHZ 2dBi Antenna	Rev	A1
Customer P/N		KH P/N	KH-(868)-J505-JB
RF Design		RF Manager	R
Structural Design		Structural Manager	
Technical Director		Date	2023-2-15

Customer Approval:			
Assembly compliance with your company's requirements:	□ок	□NG	

Confidentiality Requirements

Our company possesses proprietary information provided by proprietary technology. This proprietary information must be kept confidential and may not be disclosed to any individual or company without prior written consent from the company.

Content

Cover	1
Content	2
Product Images	3
Product Parameters	
Structural Drawing	6
Environmental Reliability Test Report	7

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1. Product Images:



2. Product Parameters

Product Testing Parameters						
Name	2dbi Rubber Ducky Antenna	Model Type	Khb-868Ant			
Electrical Specifications						
Frenquency Range	868Mhz	Polarization	R Vertical			
Impedance	50 Ω	Radiation Direction	Omni- Directional			
VSWR	≤ 2.0	Power	50 W			
Gain	2dbi	Bandwidth	/			
Mechanical Specifications						
Dimensions	108 ± 2mm	Radome Color	Black			
Connector	SMA	Cable Length	/			
Radome Material	ABS/TPEE					
Working Temperature	-40°C ~+85°C	Limit Temperature	-40°C ~+85°C			

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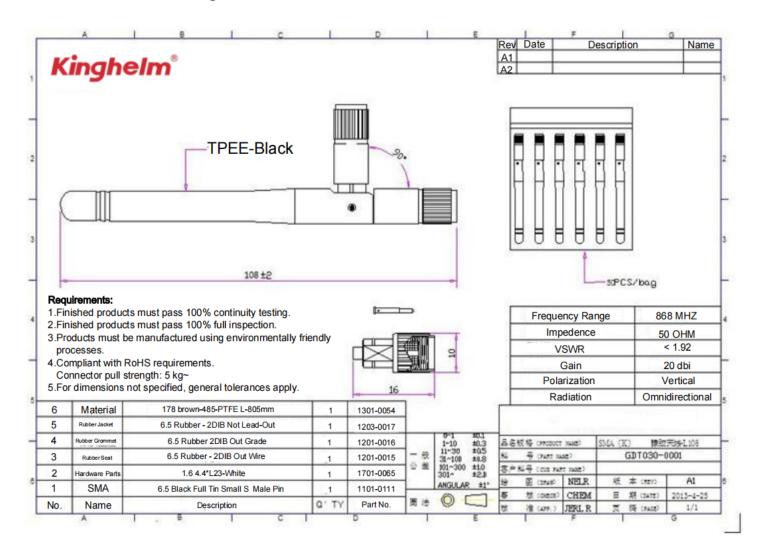
3. VSWR, Returnloss, Smith Data



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4. Structural Drawing



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5. Environmental Performance Test:

Item	Test Conditions	Specification
Storage Environment	If not specified, the testing conditions for temperature, humidity, and air pressure are as follows: 1. Temperature: -30°C~+80°C 2.Relative Humidity: 45%-85% 3.Air Pressure: 86kpa-106kpa	Adequate electrical and mechanical performance
High-Low Temperature Test	Cycle between 70°C and 40°C five times, then leave under normal conditions for 1-2 hours, and inspect the appearance and quality	The dimensions should meet the specified requirements and comply with the mechanical and electrical performance
Constant Humidity And Heat Resistance Test	At a relative humidity of 95±3% and a test temperature of 40°C, maintain for 2 hours. Immediately after removal, within 5 minutes, measure the electrical performance of the sample. Leave the sample under normal conditions for 1-2 hours and inspect its appearance and quality	The dimensions should meet the specified requirements and comply with the mechanical and electrical performance
Vibration Test	Vibration Frequency Range: 10-55Hz, Displacement Amplitude: 0.35mm, Acceleration Amplitude: 50.0M/S, Number Of Frequency Sweeps: 30 Cycles	Adequate electrical and mechanical performance
Drop Test	Free fall from 1 meter height in mutually perpendicular axes direction for 3 times	Adequate electrical and mechanical performance