



Shenzhen Yingjia Chuang electronic technology Co., LTD

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Sample acknowledgement

Supplier: Shenzhen Yingjia Chuang electronic technology Co., LTD

Item number (customer): 1011400-0039

Product specification: 915MHz black FPC built-in antenna, 1.13 black line L=95MM

Sample delivery date: 2024.08.14

Supplier audit column (official seal required)		
PREPARED	CHECKED	APPROVED
Yin feijie	Fang hanfeng	Xiao han



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APPROVAL SHEET

CUSTOMER NAME	Shenzhen Golden Vision Technology Development Co., Ltd	
CUSTOMER P/N		
PART NAME	915MHz black FPC internal antenna, 1.13 black line L=95MM	
P/ N	YJC-6N095-B47	
APPROVAL REV.	A1	
DELIVERY DATE	2024 年 08 月 14 日	
PREPARED BY	Yin feijie	
CHECKED BY	Fang wenfeng	
APPROVED BY	Xiao han	
Customer Approved		
Prepared By	Checked By	Approved By

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Resume:

Edition	Content of change and reasons for change	Date	Release
A0	Initial release	2024. 08. 08	
A1	Update data	2024.8. 14	



Antenna plan:

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Antenna technical parameters and environmental testing:

Electrical technical parameter	
Electrical Specifications	
Frequency Range	900-930MHz
VSWR	<1.92
Input Impedance	50 Ω
Direction	All
Gain	0.97dBi
Mechanical Specifications	
Wire Color	Black
Input connector	XD
Wire Length	95MM
Working Temperature	-20°C~+70°C
Working Humidity	20%~80%

Environmental performance test:

Item	Test condition	Specification
Storage environment	Test temperature, humidity, and air pressure without specifying the following: 1. The temperature ranges from -20°C to +70°C 2. Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical properties are normal
High and low temperature test	The appearance quality is checked after 5 cycles between 70 ° C and -20 ° C, and then 1-2H under normal conditions.	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Resistance to constant damp heat test	The relative humidity was 95±3%, and the test temperature was 40°C. After 2H treatment, the electrical properties were measured within 5min after the samples were taken out, and the appearance quality of the samples was checked under normal conditions for 1-2H	Dimensions shall meet the requirements and shall be satisfied with mechanical and electrical properties
Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, frequency sweep cycle: 30 times.	Electrical and mechanical properties are normal
Drop test	Free fall 3 times at 1M altitude in the direction of perpendicular axes	Electrical and mechanical properties are normal



Antenna diagram:



Antenna attachment position

Antenna performance test diagram:

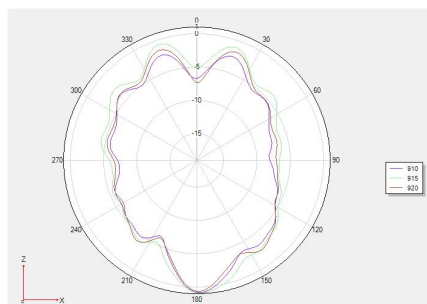




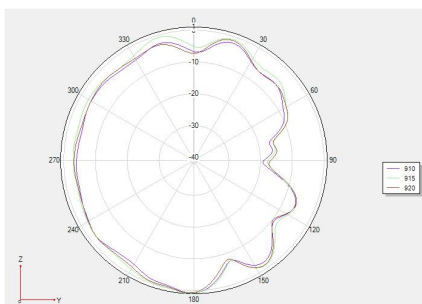
2D, 3D Test data (915MHz):

Frequency	Efficiency (%)	Gain. (dBi)
910MHz	46.11	0.86
915MHz	49.61	0.97
920MHz	44.92	0.79

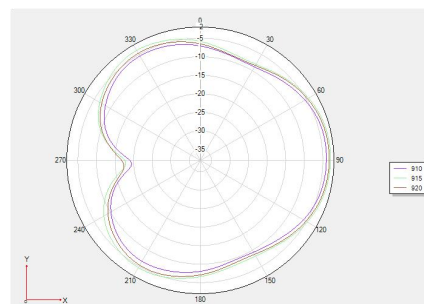
Phi 0 2D :



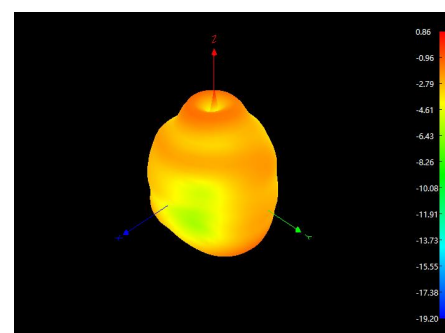
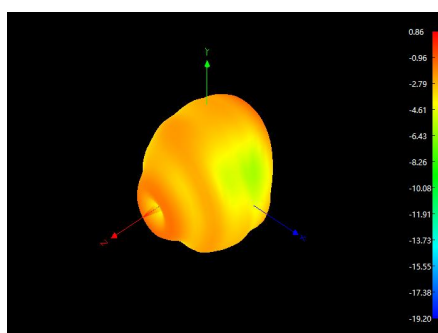
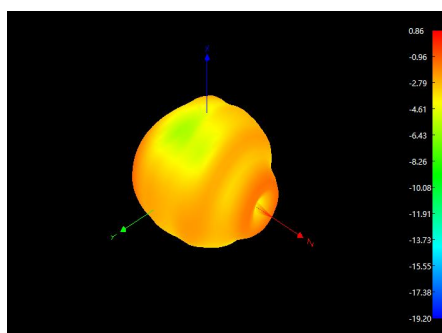
Phi 90 2D



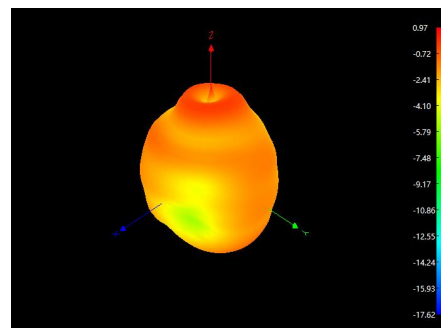
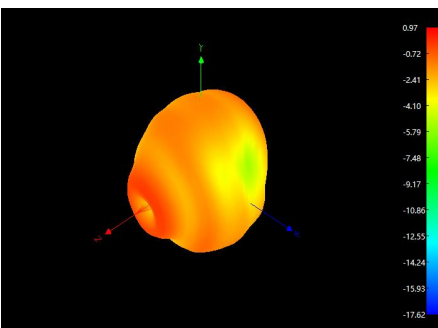
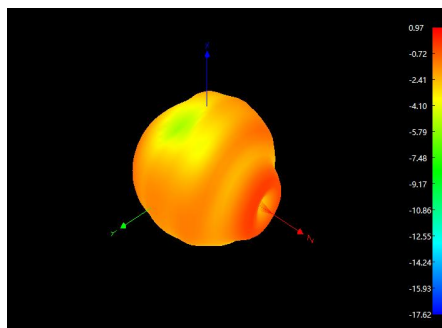
Theta 90 2D



3D 910:

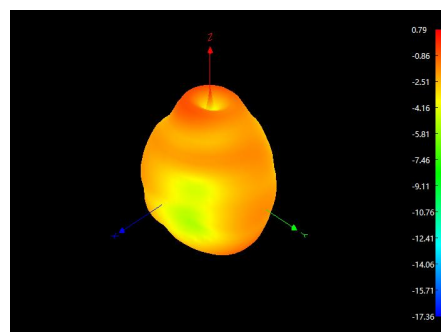
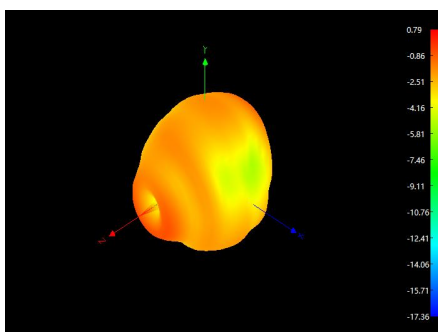
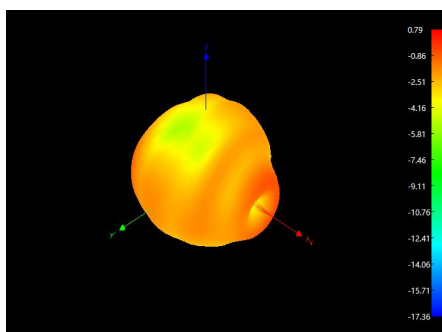


3D 915:





3D 920:





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ROHS Bill of Material											
This is to certify that the components delivered to your company, the raw materials used in the auxiliary materials, and the additives used in the production engineering comply with the environmental requirements of the RoHS Directive on the Restriction of the use of Hazardous Substances (RoHS Directive 2011/65/EC).											
The components of components, raw materials used in auxiliary materials, packaging materials, and additives used in the production process are reported below:											
Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Harmful substance content (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Wire	Coaxial cable	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friendly tin wire	SHAEC24006459102	SGS	24/04/10	ND	78	ND	ND	ND	ND	PASS
terminal	Phosphor bronze	CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	Gold coating	A2240410234101001E	CTI	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2240126395101003E	CTI	24/03/16	ND	ND	ND	ND	ND	ND	PASS
FPC	Printing ink	A223046640210102ER1	CTI	23/09/13	ND	ND	ND	ND	ND	ND	PASS
	3M9471LE	SHAEC23021627701	SGS	23/12/27	ND	ND	ND	ND	ND	ND	PASS
	Copper foil	A2240082746101006E	CTI	24/03/01	ND	ND	ND	ND	ND	ND	PASS