



产品规格承认书

Specification For Approval

客户名称: Zhejiang Dahua Technology Co., Ltd.
Customer

供 应 商: Gaoke Ant Co., Ltd.
Supplier

客户料号:
Customer P/N

产品名称: WIFI iron antenna
Production Name

产品型号: GKZS-WIFI-AD3220-RF081I-200
Production Number

供应商确认盖章 (Supplier Signature)		
工程师 Engineer	审核 Checked by	批准 Approved by
Huang Yuming	Xie Qianju	Yang Jingsong
2022 年 09 月 29 日	2022 年 09 月 29 日	2022 年 09 月 29 日

客户确认盖章 (Customer Signature)		
工程师 Engineer	审核 Checked by	批准 Approved by
年 月 日	年 月 日	年 月 日

注: 客户确认盖章后, 请将此承认书回传到我公司。

GaoKe Ant Co., Ltd

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Description Record

版本
Version

A/0

修改内容 Content Revised

Initial creation

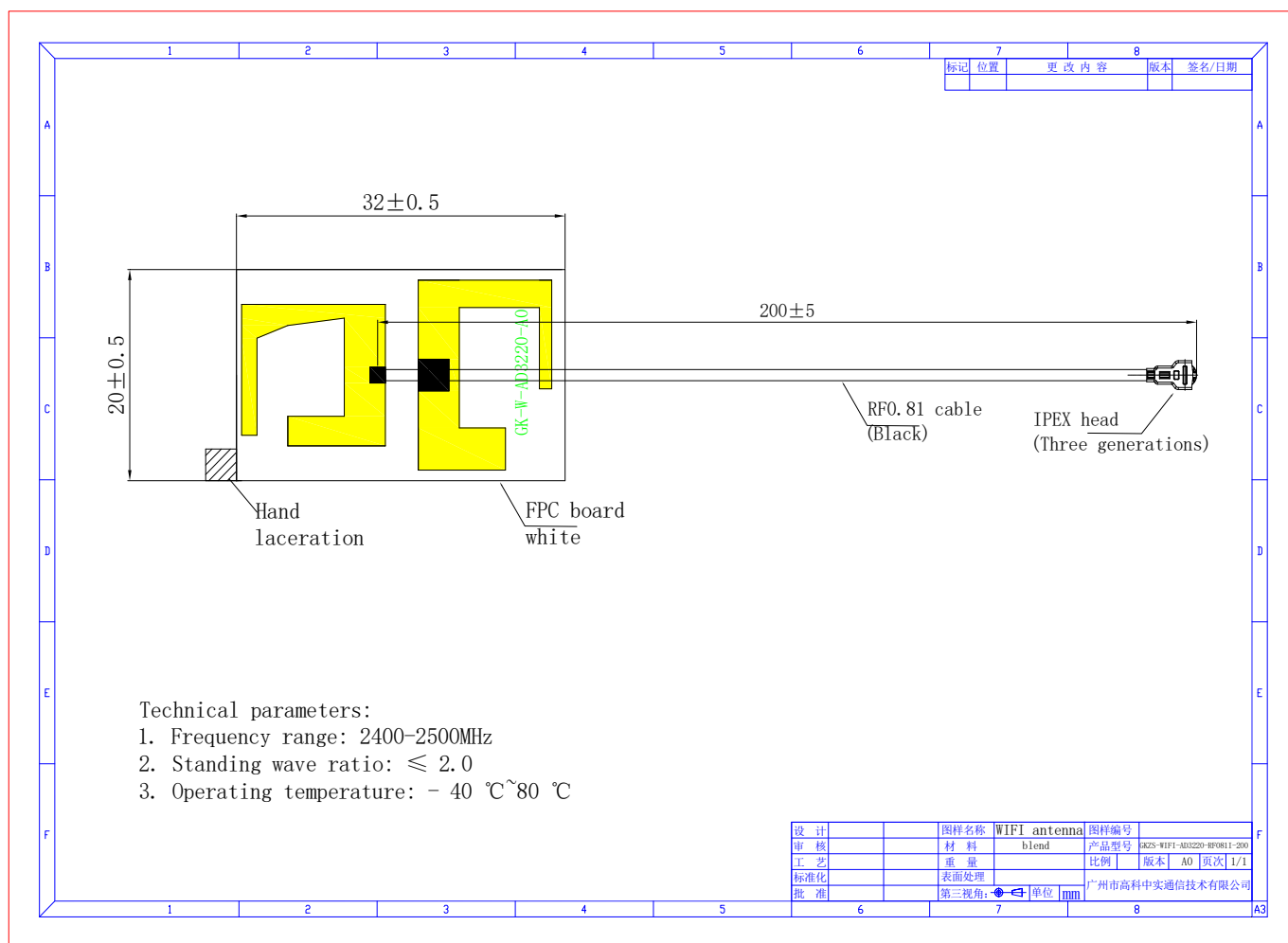
创建者
Modifier

Xie Qianju

日期
Date

2022. 09. 29

1. Product structure drawings (mm)



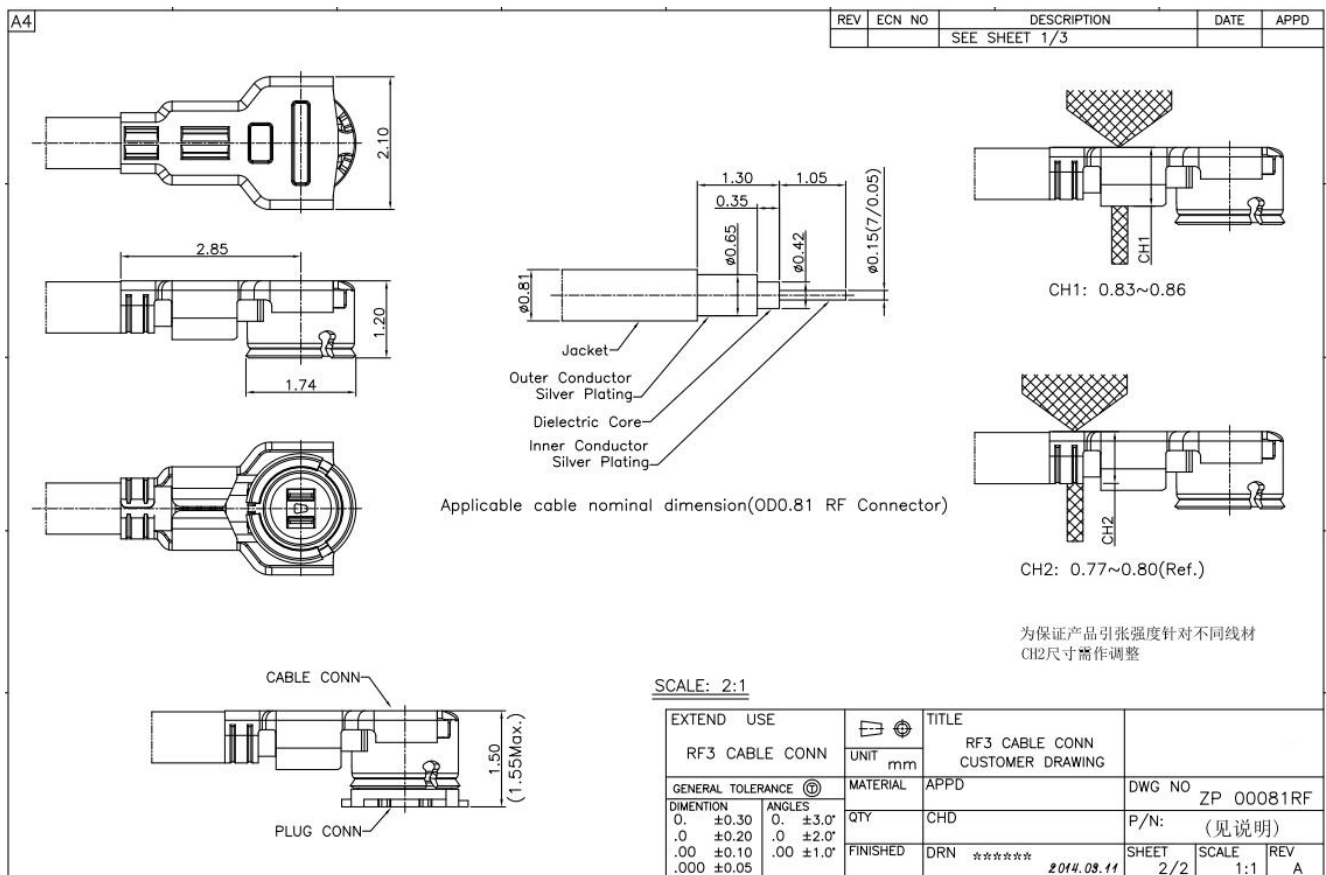
2. Product physical map



3. Antenna technical parameters

Manufacturer internal model	Ex: GKZS-WIFI-AD3220-RF081I-200
Class	Ex: WIFI
Frequency range	Ex: 2400-2500MHz
Form	Ex: Passive built-in antenna (FPC)
Polarization	Ex: Linear polarization
Sanding wave	Ex: ≤ 2.0
Productiveness	Ex: 80.82% (average)、82.73% (peak)
Gain	Ex: 4.68dBi (average)、4.84dBi (peak)
Joint categories	Ex: IPEX
Connector property	Ex: Female head (three generations)
Normal axis ratio	Ex: /
Active / passive	Ex: Passive
Antenna size	Ex: 32x20mm
Feeder type and size	Ex: RF0.81 cable (black) 200mm long
Feeder loss	Ex: RF0.81 cable, 100MHz/6000MHz:-10 $\leq$ X<0
Working temperature	Ex: -40℃~80℃
Power capacity	Ex: 33dBm
Characteristic impedance (R)	Ex: 50 Ω
Salt fog grade	Ex: 48H
Medium pressure resistance	Ex: /
Contact resistance	Ex: /
Insulation impedance	Ex: /
Radiation direction	Ex: /
Weight (Weight)	Ex: $\leq 20g$
Remarks	Ex:

4. IPEX head (third generation) specification



5. Antenna performance test (prototype test)

1. Echo loss & Pratio

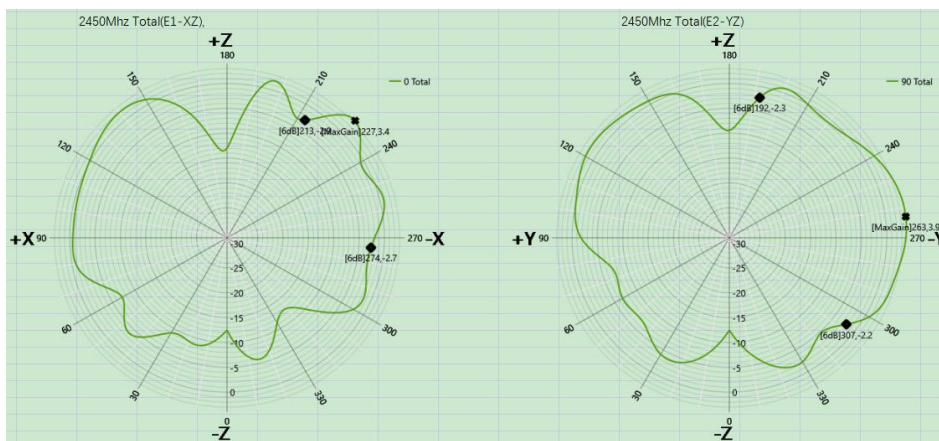
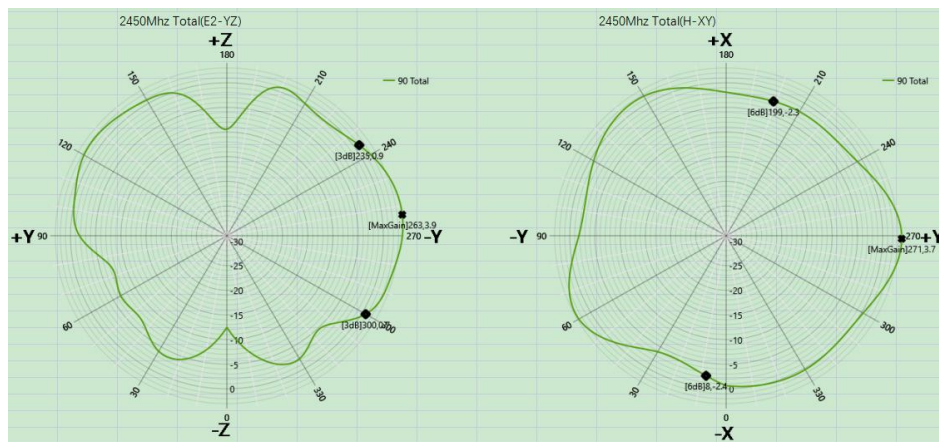
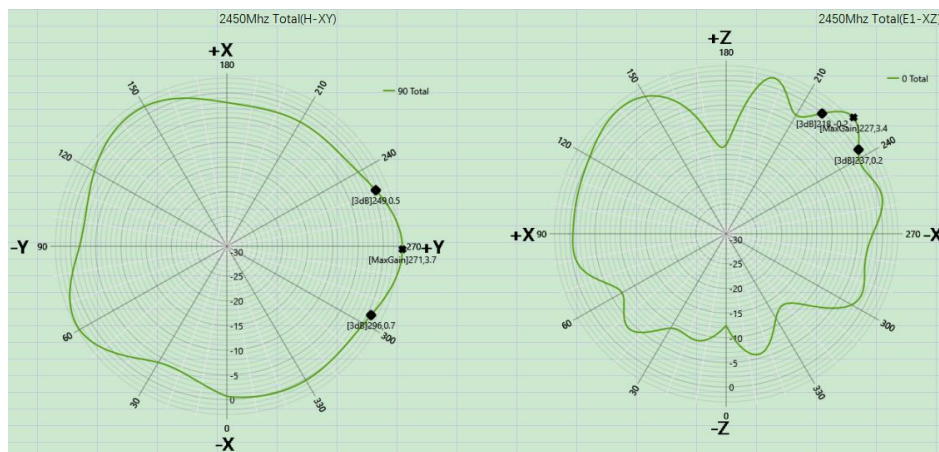
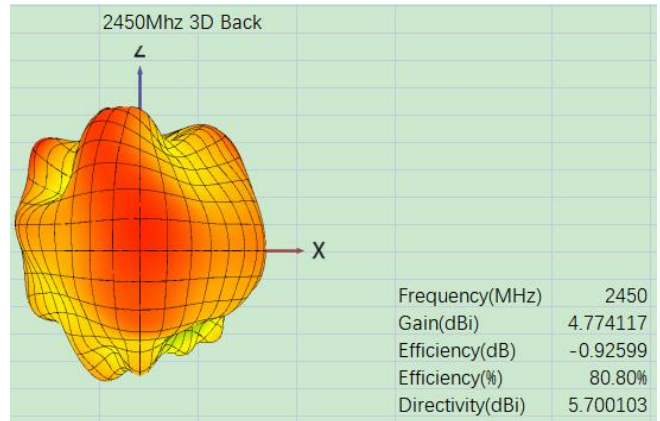
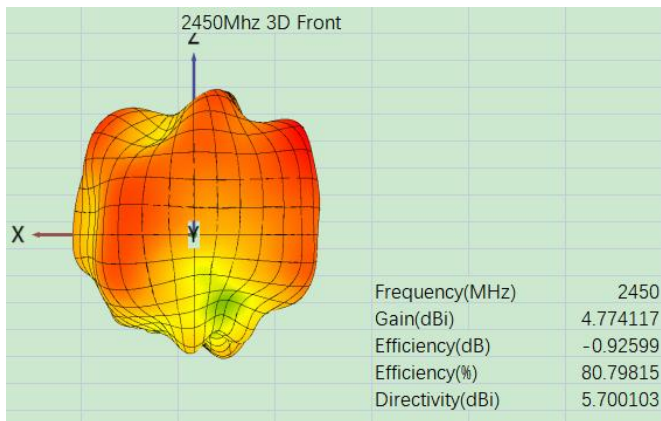
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

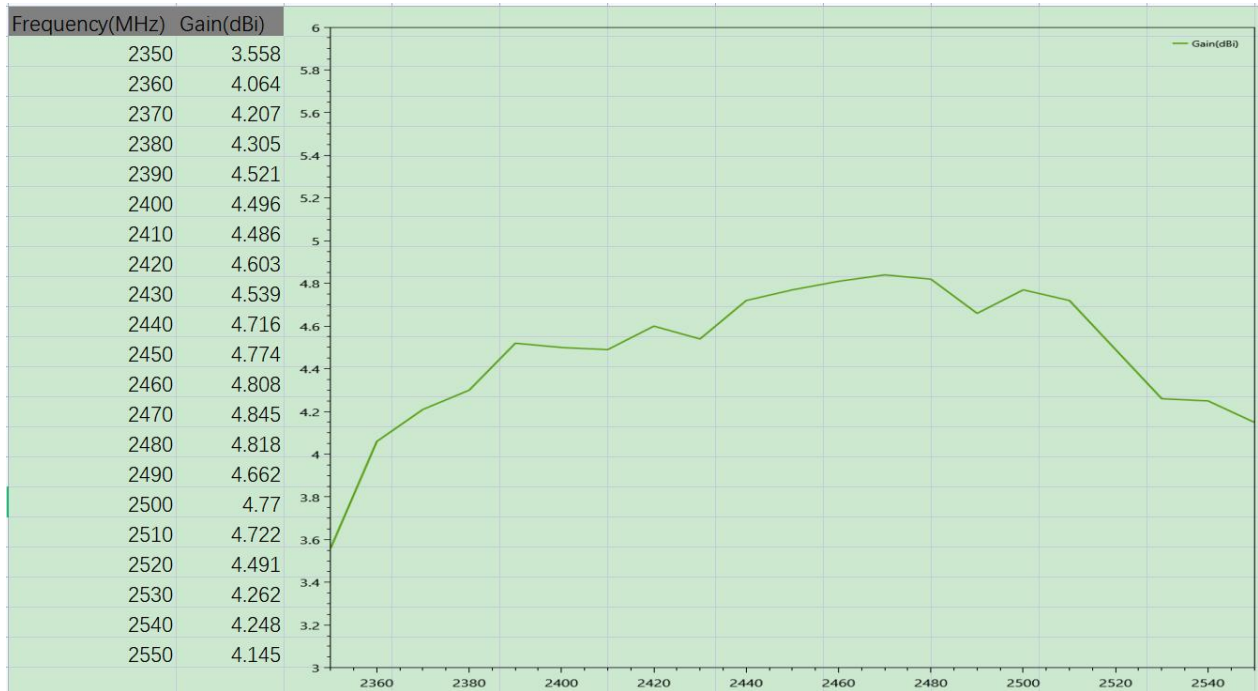
Resize



2、Direction diagram (2D and 3D diagram)



3、Gain graph



6. Reliability test report

Customer name:	Zhejiang Dahua Technology Co., Ltd	Customer No.:	/	
Product name:	WIFI built-in antenna	Product model	GKZS-WIFI-AD3220-RF081I-200	
Test item	Test condition	Requirement	Test number	Judge
High temperature storage	Place in the environment of 80 °C± 2 °C for 12H	All dimensions meet the requirements; The appearance shall be free of deformation, degumming, rust, watermark, etc; The wire shall be free of damage, melting, bubble and other phenomena; Normal performance	1PCS	Qualified
Low temperature storage	-12H in the environment of 40 °C± 2 °C	All dimensions meet the requirements; The appearance shall be free of deformation, degumming, rust, watermark, etc; Normal performance	1PCS	Qualified
Temperature cycle	1. Place it at - 20 °C for 30 minutes, 25 °C for 5 minutes, 70 °C for 30 minutes, and 25 °C for 5 minutes 2. Number of cycles: 5;	All dimensions meet the requirements; The appearance shall be free of deformation, degumming, rust, watermark, etc; Normal performance	1PCS	Qualified
Heat resistance	Place it in an environment with temperature of 40 °C± 2 °C and humidity of 93 ± 2% RH for 4h	All dimensions meet the requirements; The appearance shall be free of deformation, degumming, rust, watermark, etc; Normal performance	1PCS	Qualified
Salt spray test	Place in a closed environment with sodium chloride solution concentration of 5% (m ²), PH value of 6.5-7.2, temperature of 35 °C± 2 °C and humidity of>85% RH for 48 hours	The cable head shall be free of oxidation, yellowing, greening, red rust, white rust, etc; Normal performance	1PCS	Qualified
Product drawing before sample		Product drawing after sample:		
				
Test equipment				
				
Preparation / Date:	Xie Qianju/2022. 09. 16	Review / Date:	杨敬松/2022. 09. 16	
remarks:				



7. Packaging instructions

Order number	Manner of packing	Quantity	Remarks
1	Small plastic bag for antenna	100PCS/pouch	
2	Large plastic bag for antenna	1000PCS/large bag	
3	Antenna outer box	5000PCS box/box	Subject to the actual shipment quantity