

SPECIFICATION FOR APPROVAL

CUSTOMER:	
CUSTOMER MODEL NO:	智能锁
XUNDA PRODUCT P/N:	XD1C-A0080F03-10A
PRODUCT TYPE:	2.4GHz
REVISION	V0.1
DATE	2026-4-28

XUNDA TECHNOLOGY			CUSTOMER APPROVED		
PREPARED BY	CHECKED BY	APPROVED BY	PREPARED BY	CHECKED BY	APPROVED BY
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VersionInformation

Date	Revision	Comment	Author
2026-4-28	0.1	Initial released	Linmeizhen

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1. Product Summary

1.1. XD1C-A0080F03-10A is a 2.4-2.5GHz antenna designed with patented technology. It can be easily integrated into the machine. It has high efficiency and good performance, and easy to assemble for mass production.

1.2. XD1C-A0080F03-10A is an ideal solution for wireless network equipment, such as access points, routers, and gateways.

1.3. XD1C-A0080F03-10A are RoHS compliant.

2. Features Specification

2.1. IEEE 802.11 b/g/n/ac/ax standards

2.2. High efficiency

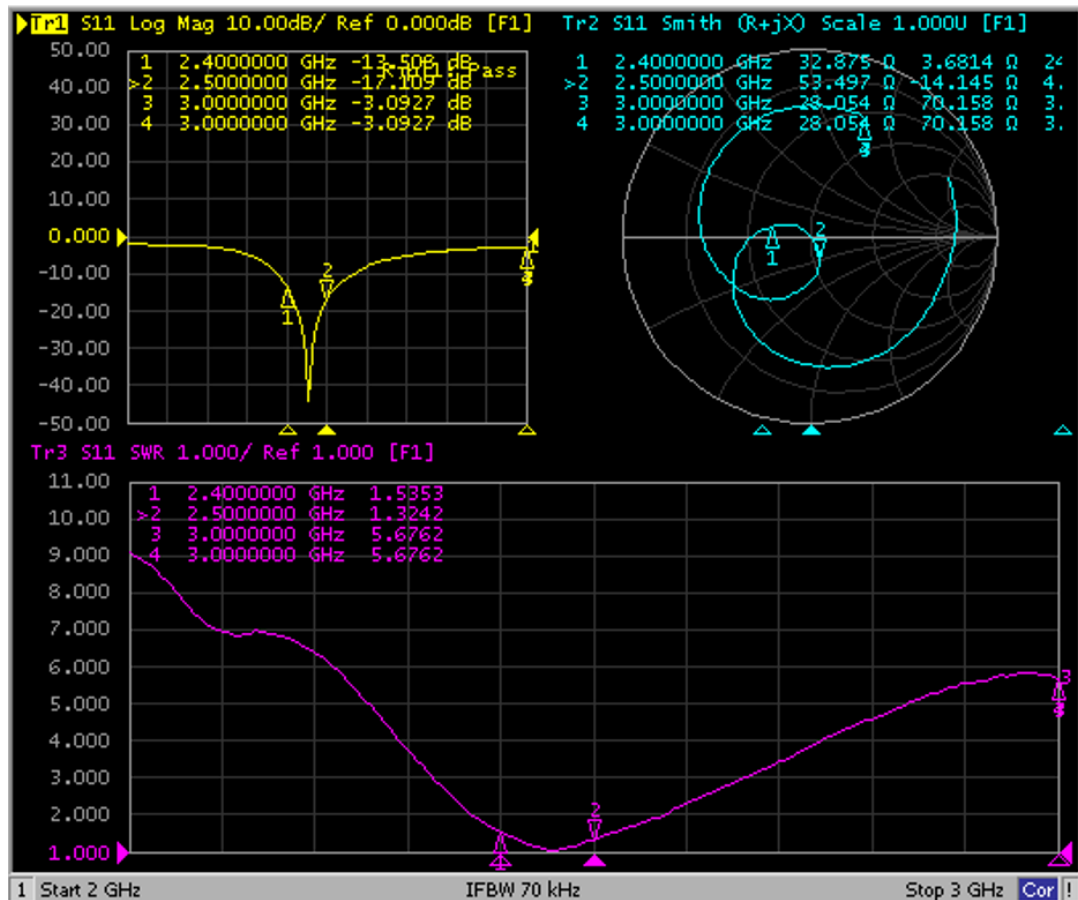
2.3. Quick integration

3. Overall performance

Items	Specification
Frequency Range	2.4~2.5GHz
Feed Impedance	50 Ω
Gain	5 $\pm$ 1 dBi
VSWR	$\leq$ 2.0
Return Loss	$\leq$ -10dB
Admitted Power	10W
Polarization	Linear, Vertical
Connector Type	I-PEX
Antenna Base	FPC
Operating Temp	-20°C~+65°C
Operating Relative Humidity	5%RH ~ 95%RH
Storage Temp	-30°C~+75°C
Storage Relative Humidity	5%RH ~ 95%RH

4. Product Characteristics

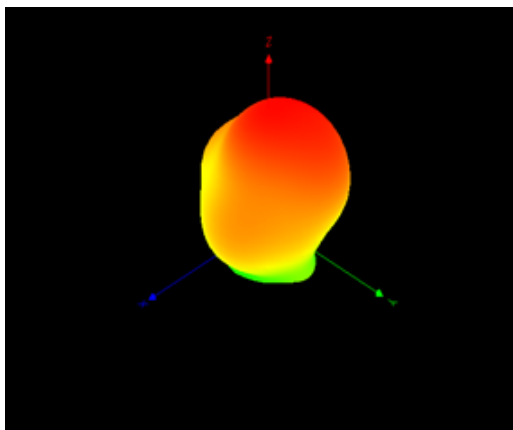
4.1. Return Loss



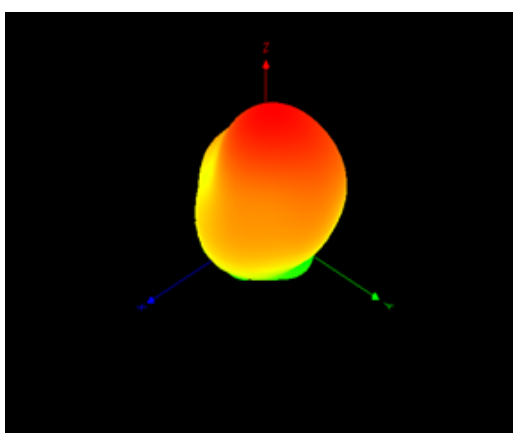
4.2. Radiation Pattern

3D&2D Radiation Pattern

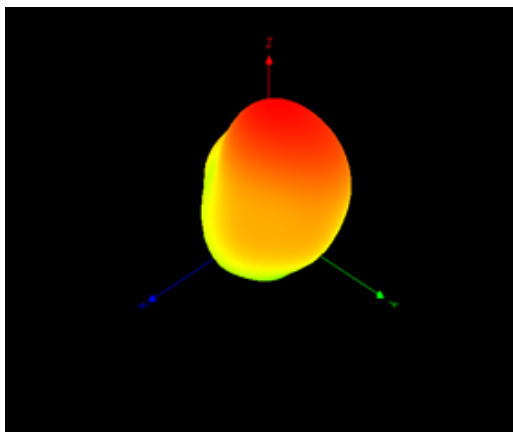
频点	增益 (dBi)	效率
2.4GHz	5.05	65.16%
2.45GHz	5.24	67.30%
2.5GHz	5.73	66.68%



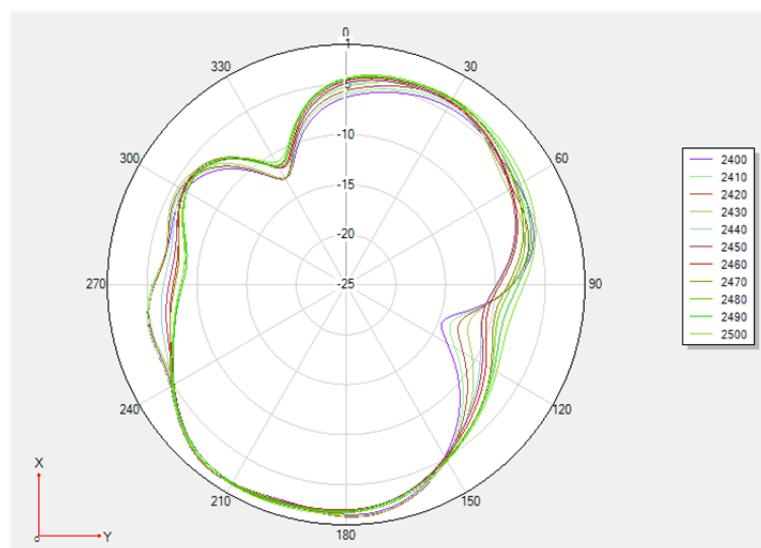
(2.4GHz WIFI) 低频点 3D 图及最大增益



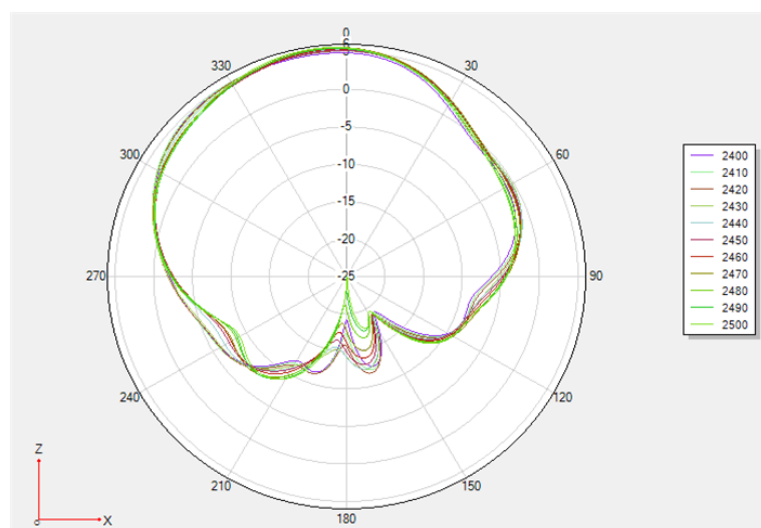
(2.45GHz WIFI) 中频点 3D 图及最大增益



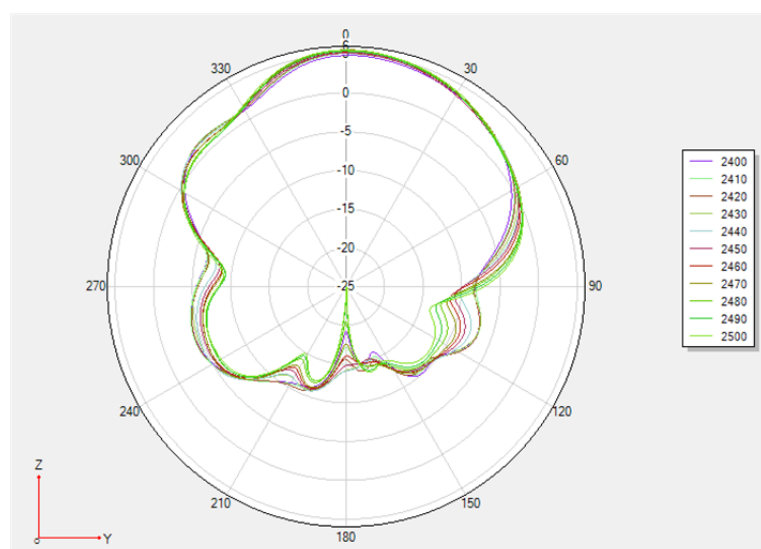
(2.5GHz WIFI) 高频点 3D 图及最大增益



2.4-2.5GHz XOY(H Face) Gain Icon

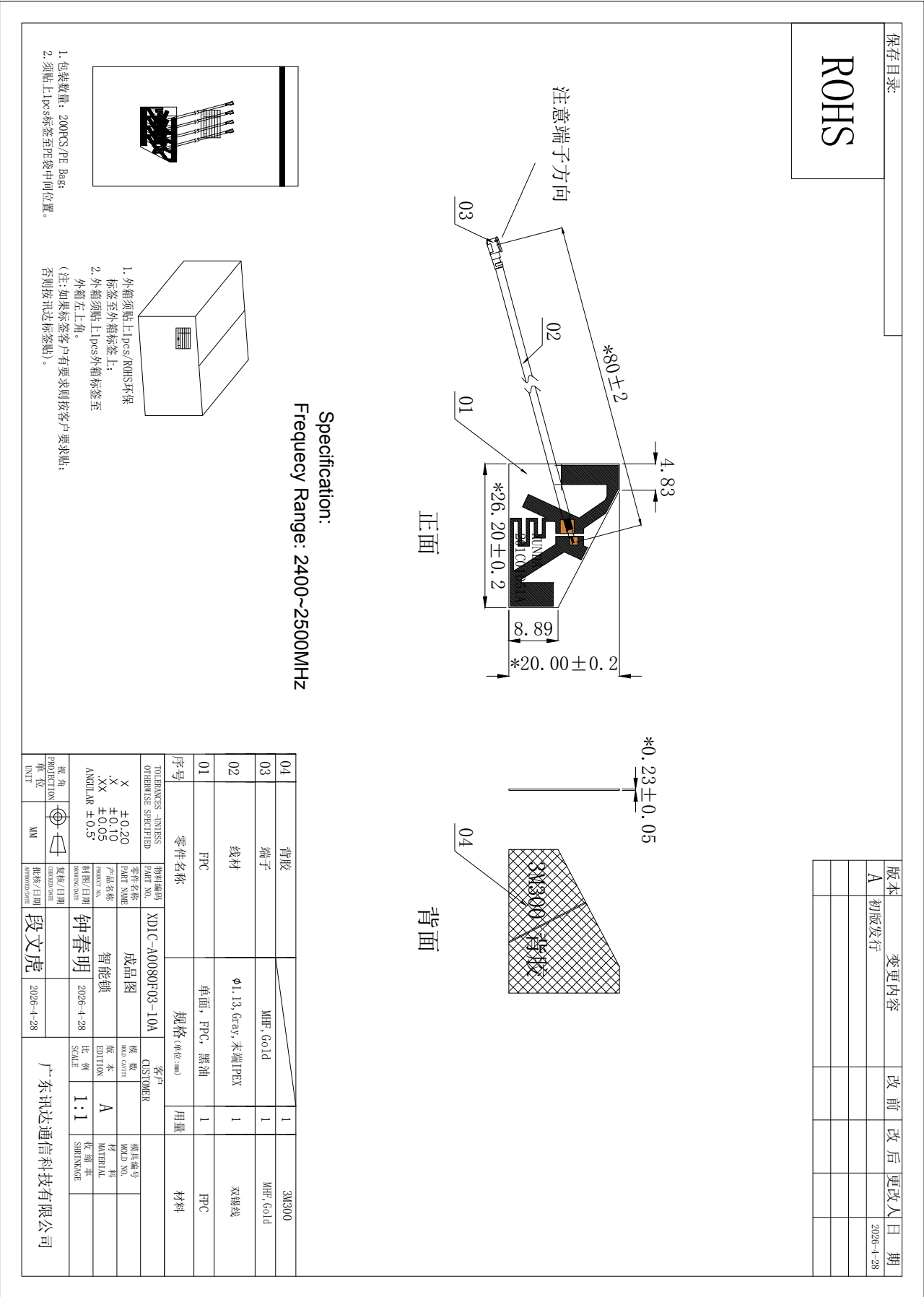


2.4-2.5GHz XOZ(E1 Face) Gain Icon



2.4-2.5GHz YOZ(E2 Face) Gain Icon

5. Product Drawing



6. Optional Cable Data Sheet

产品规格 Product Type		RF113-F 双锡		
结构图 Structure Drawing				
结构特性 Structure Characteristics				
结构 Structure	项目 Item	标准值 Standard Value		
内导体 Inner Conductor	材质 Material	镀锡铜线 Tinned Copper Wire		
	结构 Construction(mm)	7/0.085		
	标称外径 Nom.Dia(mm)	0.255±0.02		
绝缘层 Insulation	材质 Material	聚全氟乙丙烯 FEP		
	标称外径 Nom.Dia(mm)	0.70±0.03		
外导体 Outer Conductor	材质 Material	镀锡铜线 Tinned Copper Wire 16/4*0.05		
	标称外径 Nom.Dia(mm)	0.92±0.05		
	编织覆盖率 Coverage Ratio(%)	90±5		
护套 Jacket	材质 Material	聚全氟乙丙烯 FEP		
	标称外径 Nom.Dia(mm)	1.13±0.05		
电气性能 Electrical Characteristics				
项目 Item	标准值 Standard Value	项目 Item	频率 Frequency	标准值 Standard Value
阻抗 Impedanc (Ω)	50±2	衰减 Attenuation@20°C (dB/m)	1GHz	2.20
电容 Capacitance(pF/m)	98		2GHz	3.10
速率 Velocity(%)	70		3GHz	3.80
驻波比 VSWR	≤1.30@DC-6GHz		4GHz	4.40
最大工作电压 Max.Operating Voltage(V)	1000		5GHz	4.90
最大工作频率 Max.Operating Frequency(GHz)	6		6GHz	5.40
可靠性 Dependability				
最小弯曲半径(单次)Min.Bending Radius/Single		mm	5	
最小弯曲半径(重复) Min.Bending Radius/Repeated		mm	10	
工作温度范围 Operating Temperature		℃	-55-+200	
包装 Packing				
包装方式 Packing Mode	纸盘 Papery Reel			
包装长度 The Length of Each Reel(m)	1000			
每盘段数 The Joints of Each Reel	≤4			
最小段长 Min. Segment Length(m)	≥20			
使用提示 Trips for Use				
存储环境 Storage Environment	温度：30℃以下，湿度：20-65%			
最佳保存周期 The Best Save Cycle	2 个月，2 个月以上上锡效果变差，但电性能不受影响，夏季高温高湿环境开剥后需尽快流转			
加工温度 Processing Temperature	可短时承受 260℃的高温，300℃以上易发生分解，400℃以上发生显著的热分解			
铁氟龙收缩 Teflon Shrink	材料的固有属性，绝缘 0.2mm 以下，护套 0.3mm 以下			
护套窜动 Jacket Taaverse	加工长度（护套残留长度）低于 5CM 时易发生			