



广州市高科中实通信技术有限公司
Gaoke Ant Co., Ltd.

产品规格承认书

Specification For Approval

客户名称: 广东旭龙物联科技股份有限公司
Customer Sunlux Iot Technology (Guangdong) Inc.

供 应 商: 广州市高科中实通信技术有限公司
Supplier Gaoke Ant Co., Ltd.

客户料号:
Customer P/N

产品名称: 2.4G antenna
Production Name

产品型号: GKZS-2.4G-AD409A-RF1.13I-120
Production Number

广州市高科中实通信技术有限公司/Gaoke Ant Co., Ltd.

中国广东省广州市从化区神岗镇广从南路 22 号

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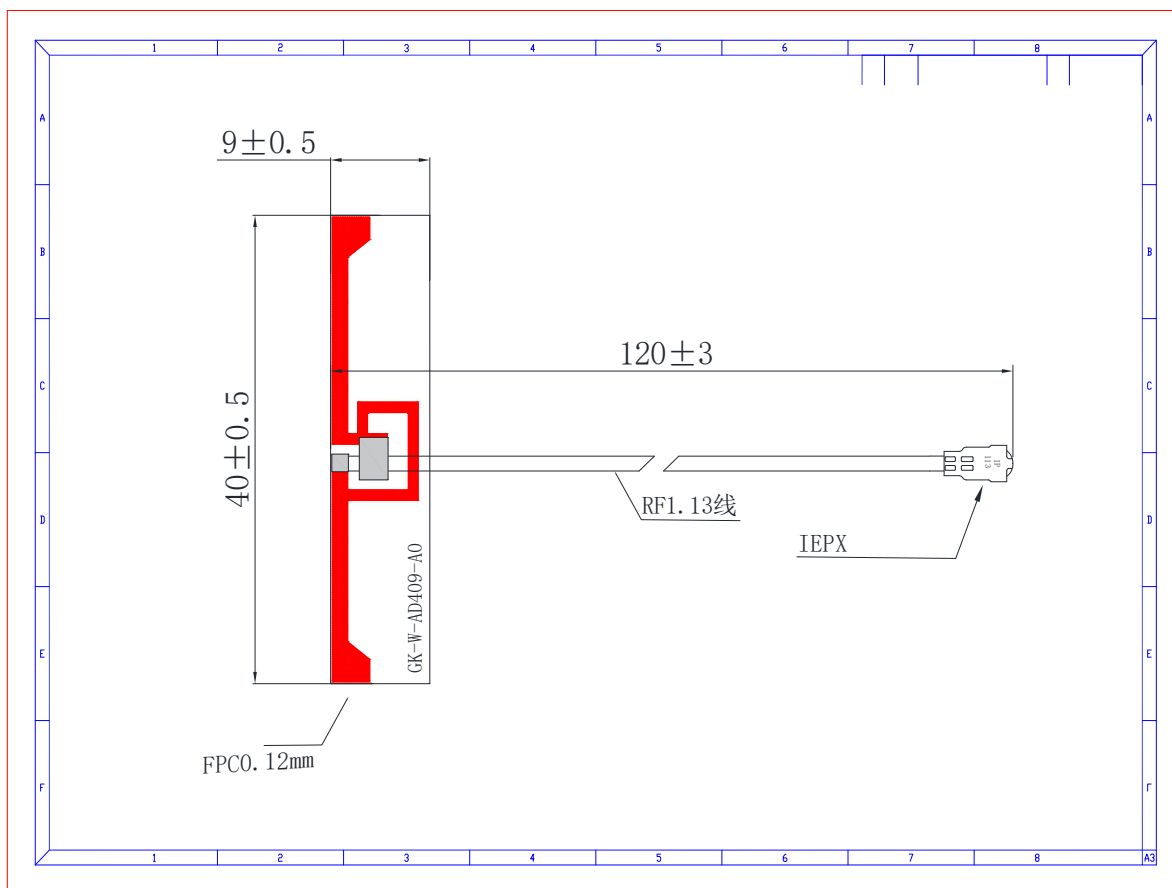
<http://www.gkzs.com.cn>



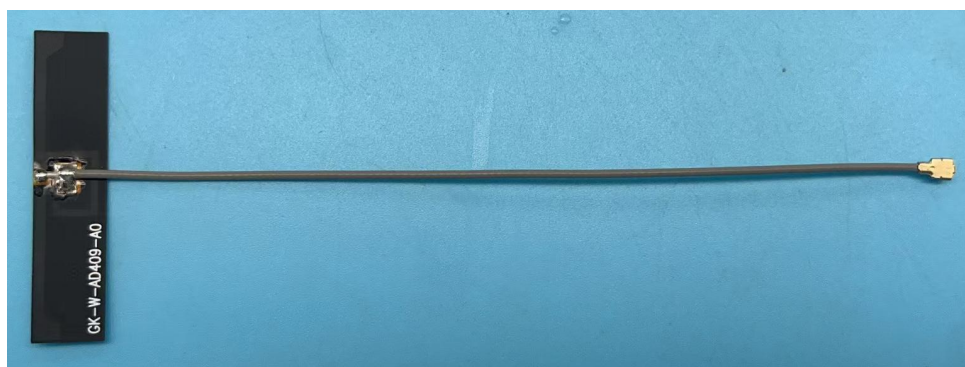
Description Record

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1、产品结构图纸/Product Structure Drawings (mm)



2、产品实物图/Product physical image





3、天线技术参数/Antenna technical parameters

Design Specifications	Typical
天线形式	2.4G antenna (FPC)
工作频率(Working Frequency)	2400-2500MHz
增益 (Gain)	2.01dBi(average)、2.33dBi (peak)
天线效率 (Antenna efficiency)	≥35%
电压驻波比 (VSWR)	≤2.0
极化方式(Polarization)	线极化/linear polarization
辐射方向(Radiation pattern)	全向/omnidirectional
馈电阻抗(Impedance)	50Ω
天线接口(Interface)	IPEX / RF1.13 120mm
天线尺寸(Overall dimensions)	40x9x0.12mm
重量(Weight)	0.5g
工作温度(Operatin Temp)	-40°C~85°C
储存温度(Storing Temp)	-40°C~85°C

4、 RF-1.13

1. SCOPE:

This specification covers FEP insulated High-Frequency coaxial cable for internal wiring of electronic equipment.

[UL STYLE 1354 80°C/30V]

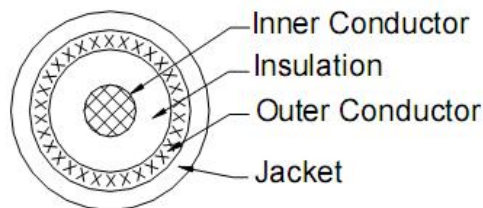
USE: Internal wiring of Class 2 Circuits of Electronic Equipment.

2. Construction :

Item	Unit	Spec. Value
Inner Conductor	Material	Silver plated copper
	construction	No./mm
	Dia.(approx)	mm
Insulation	Material	FEP
	Nom. Thickness	mm
	Dia.(approx)	mm
	Color	Natural
Outer Conductor	Type	Braid
	Material	Silver plated copper
	Coverage	%
	Dia.(approx)	mm
Jacket	Material	FEP
	Nom. Thickness	mm
	Color	Gray
	Dia.(approx)	mm

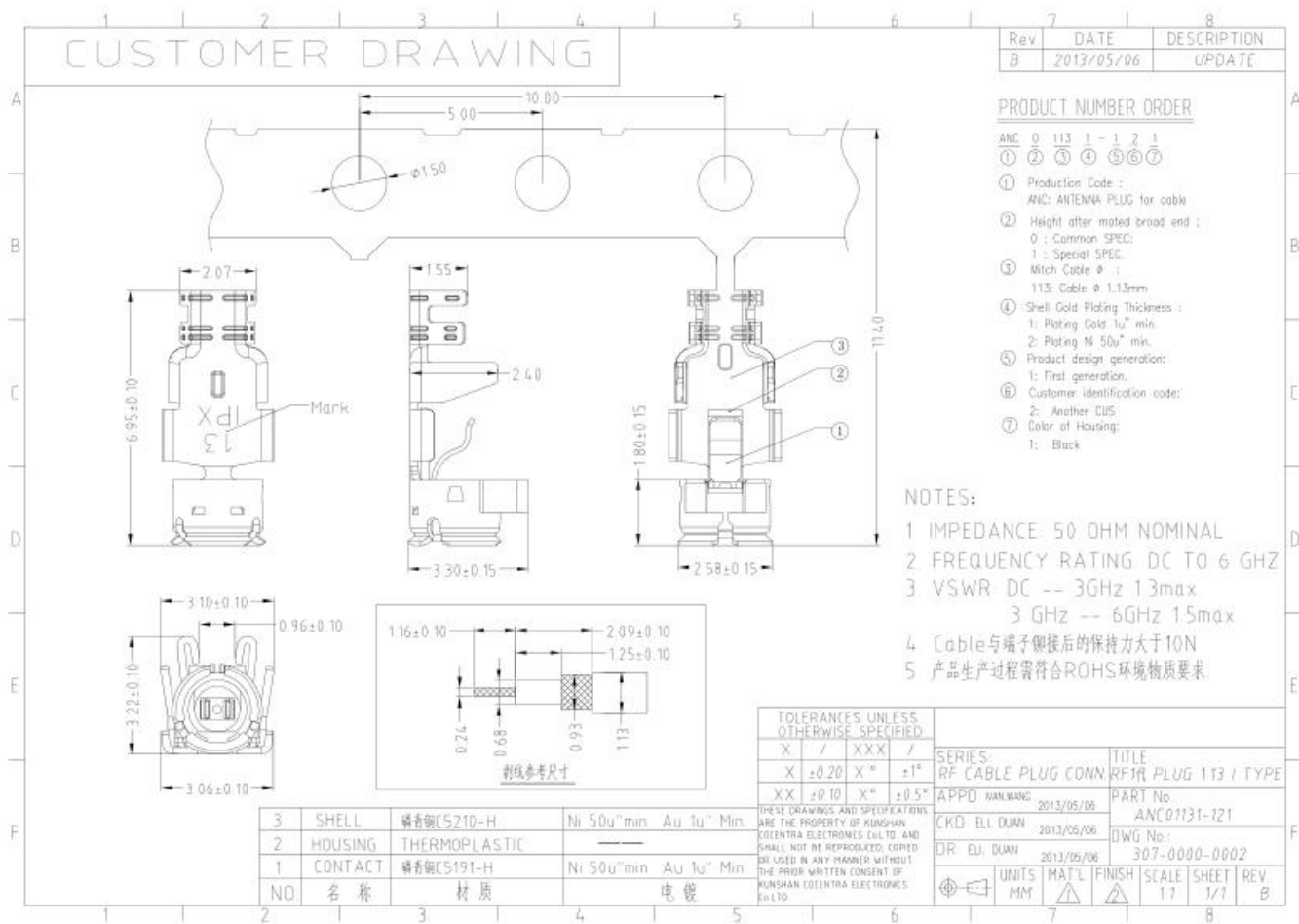
3. Characteristics :

Test Item	Unit	Specified Value	Note
Appearance	-	Faultless in visible	-
Temperature rating	°C	150	-
Voltage rating	V	250	-
Inner conductor resistance(at 20°C)	Ω /km	Max.597	At 20°C
Insulation resistance 1> (at 20°C)	MΩ-km	Min.1500	At 20°C
Dielectric strength	-	Dielectric core : No breakdown at AC1.5KV for 0.15sec.	Spark test
	-	Jacket : No breakdown at AC 1.5KV for 0.15sec.	Spark test
	-	No breakdown at AC 500V for 1min	Outer conductor to inner conductor
Capacitance	pF/m	Nom.98	At 1KHz
Characteristic impedance (at D-TDR)	Ω	50±2	TDR method
Attenuation	dB/m	2.0	1.0GHz
		2.9	2.0GHz
		3.6	3.0GHz
		4.2	4.0GHz
		4.7	5.0GHz
		5.2	6.0GHz



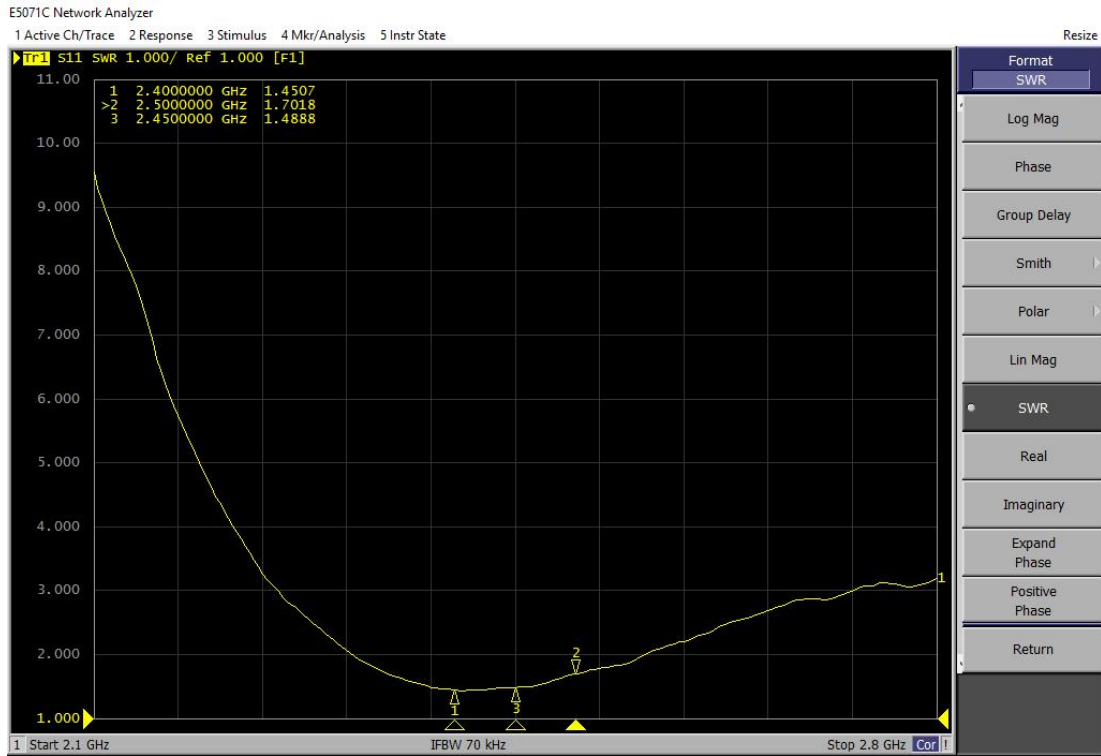
Cross-section of cable

5、IPEX

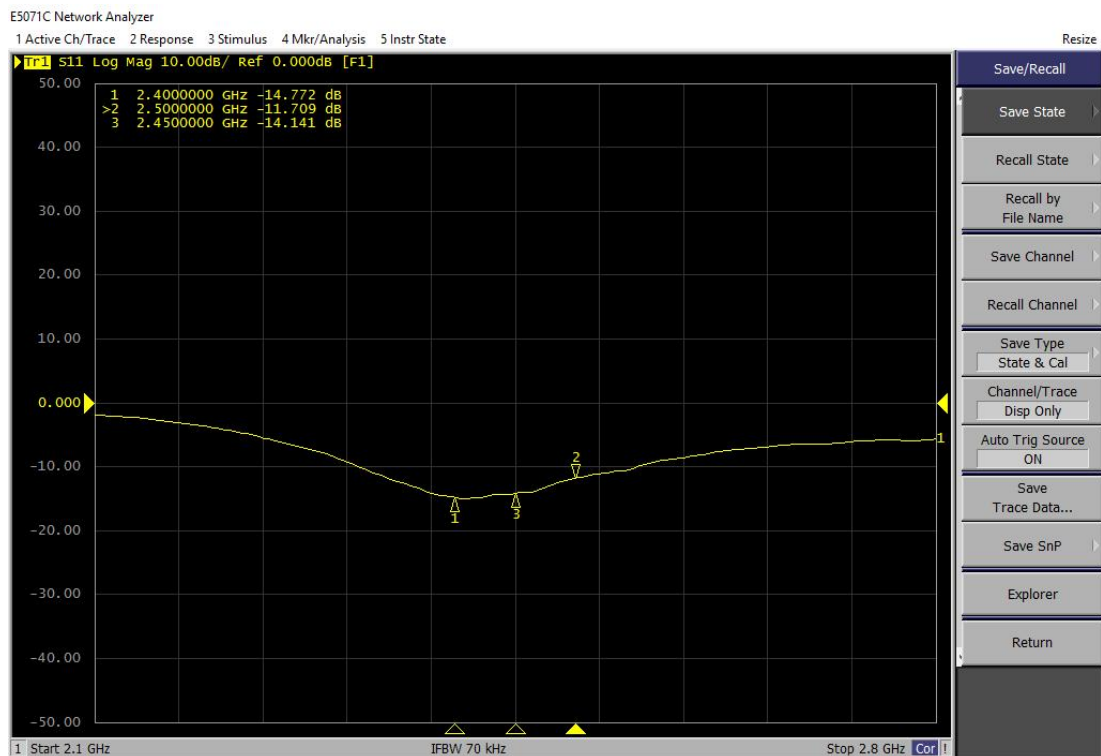


6、性能测试/performance testing

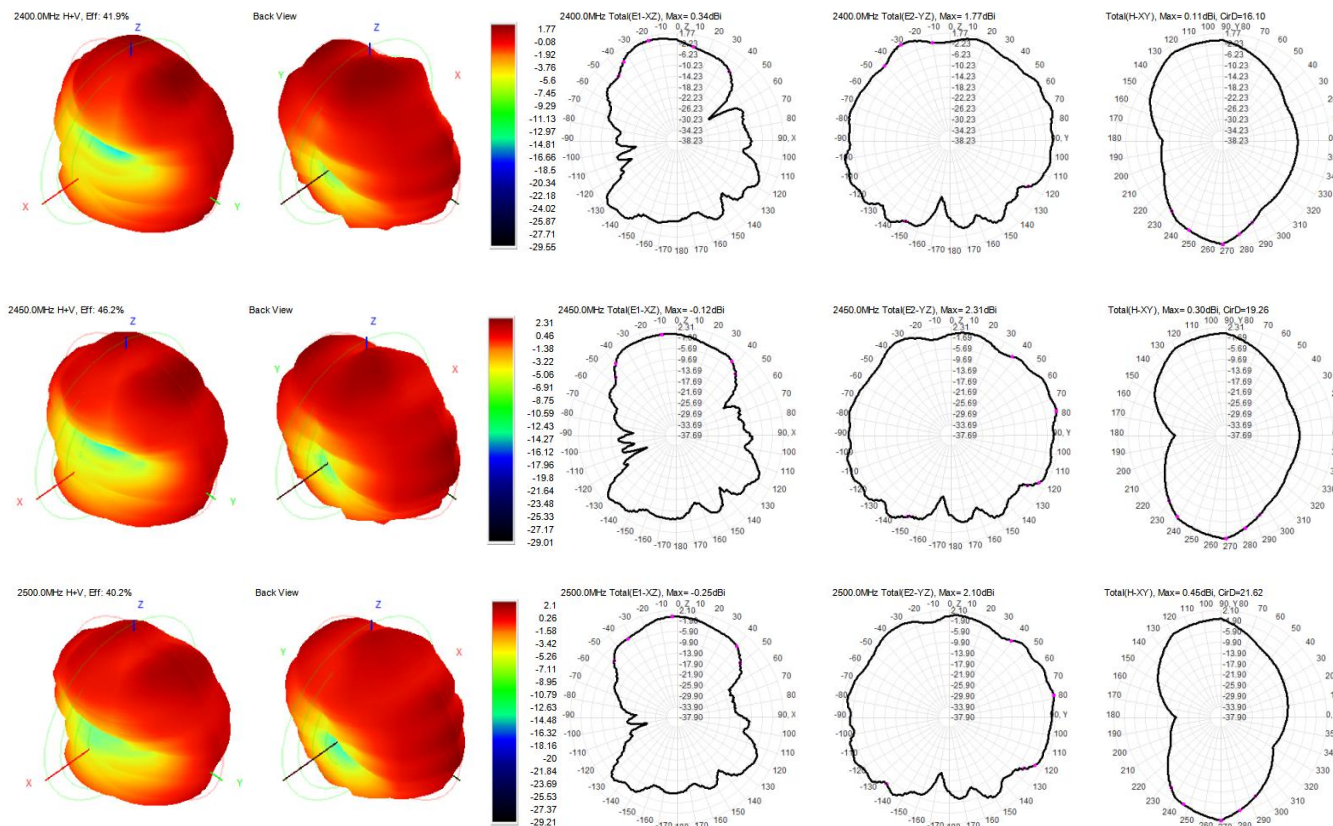
1、驻波比/Standing Poppy



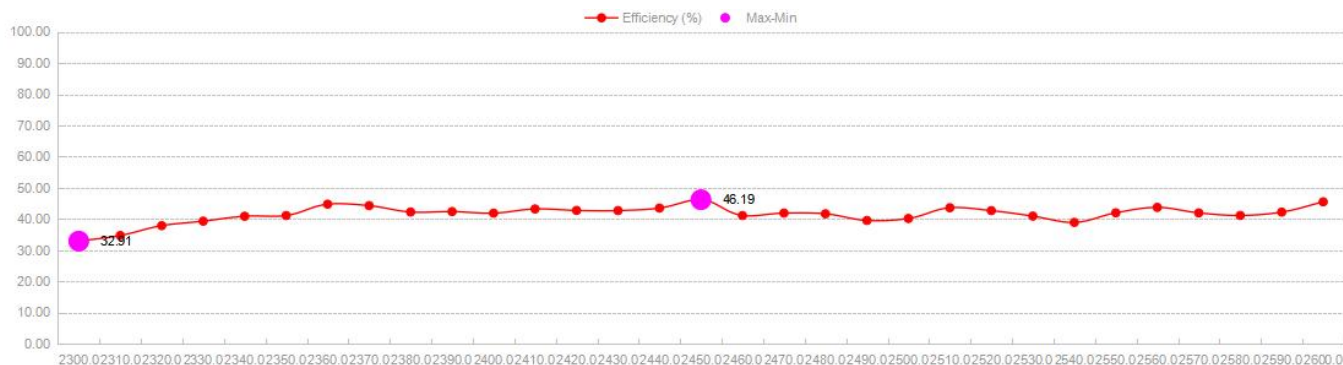
2、回波损耗/return loss



3、方向图/radiation pattern (2D / 3D)



4、效益曲线图/Benefit Curve Chart



5、增益曲线图/Gain curve graph

