



深圳市英佳创电子科技有限公司

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APPROVAL SHEET

CUSTOMER NAME 客户名称	睿联技术	
CUSTOMER P/N 客户料号	54.07.001.0006	
PART NAME 品 名	2.4G/5.8G 白色定制防水天线	
P/ N 料 号	YJC-60302-W37	
APPROVAL REV. 版 次	A0	
DELIVERY DATE 送样日期	2023 年 08 月 12 日	
PREPARED BY 承 办		
CHECKED BY 审 核		
APPROVED BY 核 准		
Customer Approved 客 户 承 认		
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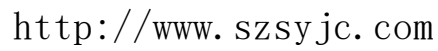
杭州办事处：杭州市滨江区物联网街 369 号大华江虹国际创新园 B 栋 212

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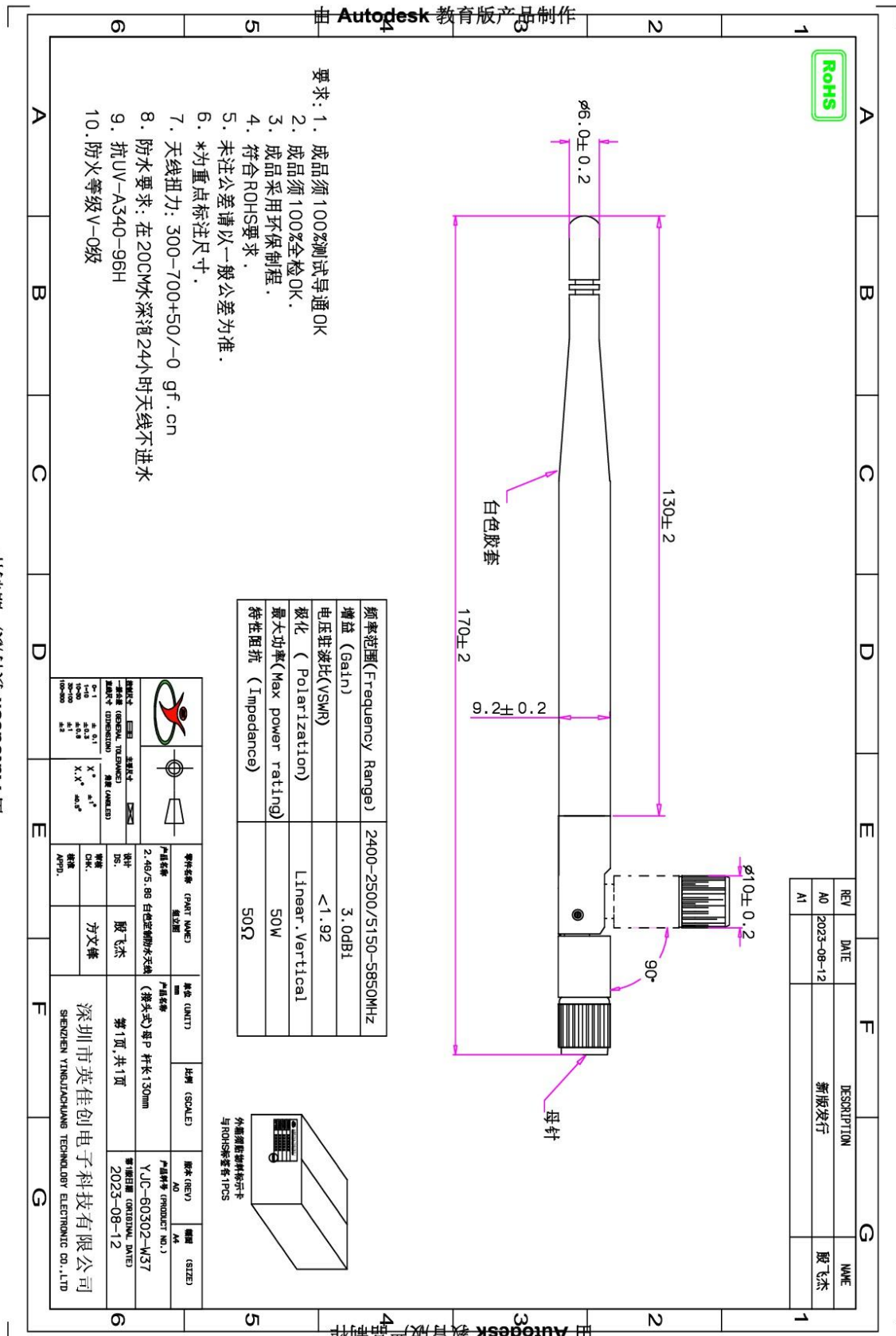


履历表：

版本	变更内容及更改原因	日期	发行
A0	初版发行	2023 年 08 月 12 日	



天线平面图:



由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作



天线技术参数及环境测试:

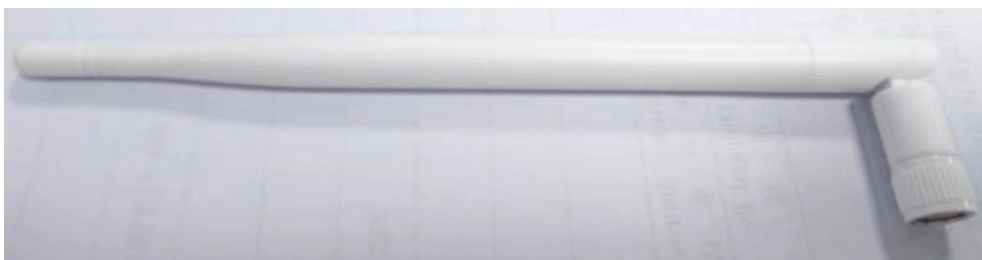
电气技术参数			
电 性 能 指 标		Electrical Specifications	
频率范围	2400-2500/5150-5850MHz	Frequency Range	2400-2500/5150-5850MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	3.0 dBi	Gain	3.0 dBi
机 械 指 标		Mechanical Specifications	
天线颜色	白色	Antenna Color	White
接口形式	SMA	Input connector	SMA
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%

环境性能测试:

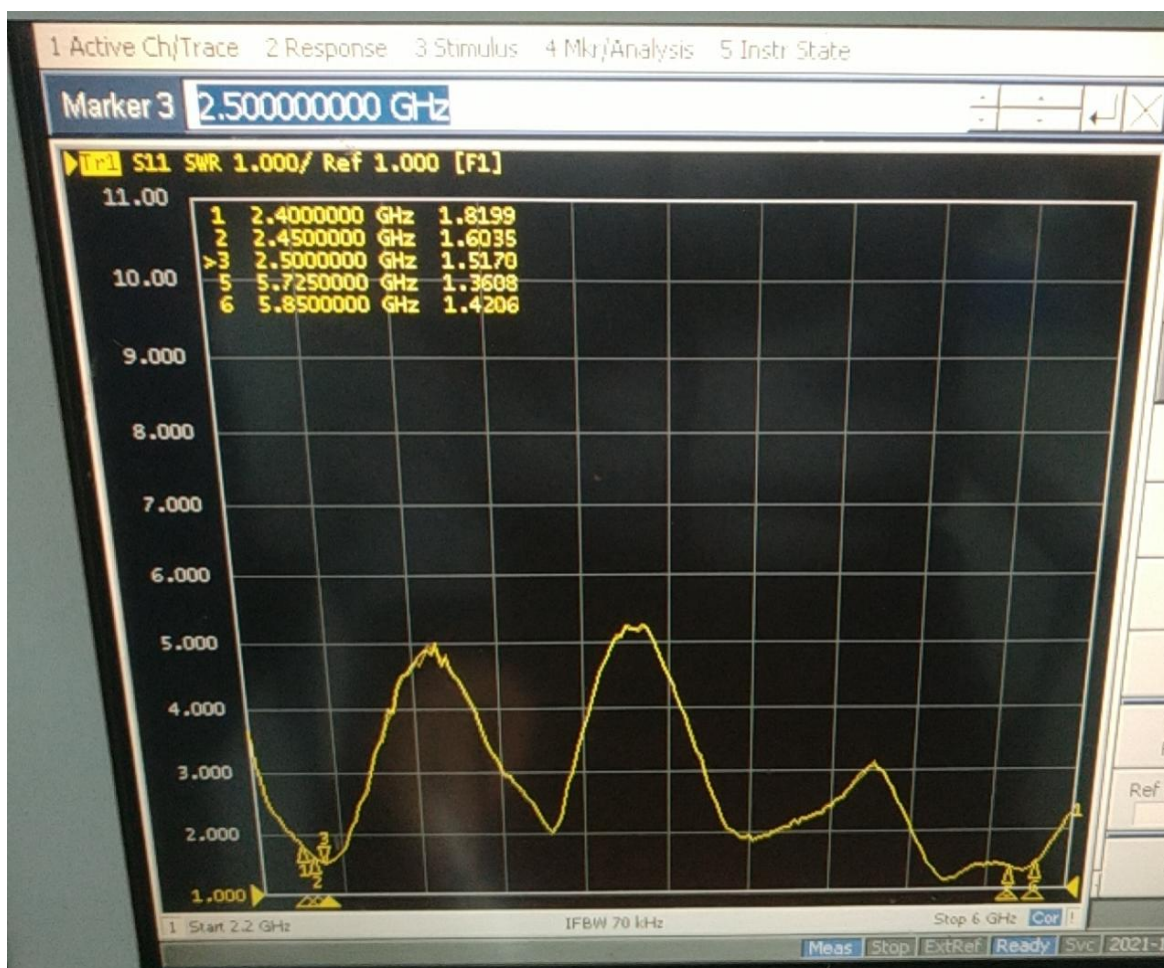
项目	测试条件	规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下: 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与-20℃之间进行5次循环,然后在正常条件下1-2H, 检查外观质量。	尺寸应满足规定并应满足满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%, 试验温度: 40℃. 持续2H作用后, 试品取出后5min之内测定电气性能, 试品在正常条件下1-2H, 检查外观质量	尺寸应满足规定并应满足满足于机械、电气性能
振动试验	振频范围10-55HZ, 位移幅值: 0.35MM, 加速度幅值: 50.0M/S, 扫频循环次数: 30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常



天线实物图:



天线性能测试图:

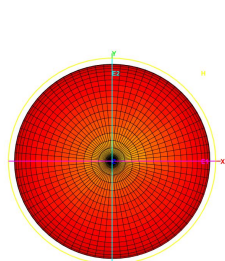




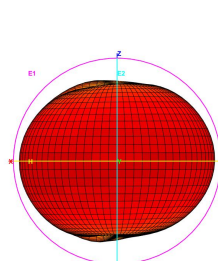
2D、3D 测试数据(2.4G)：

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	84.92	2.21
2410MHz	86.70	2.30
2420MHz	87.70	2.49
2430MHz	89.54	2.59
2440MHz	87.90	2.60
2450MHz	87.30	2.68
2460MHz	87.70	2.77
2470MHz	87.10	2.89
2480MHz	84.92	2.83
2490MHz	86.50	2.81
2500MHz	84.14	2.64

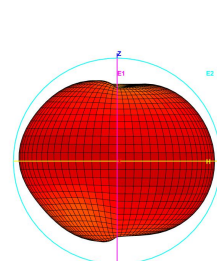
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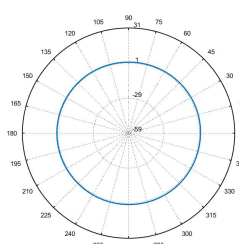
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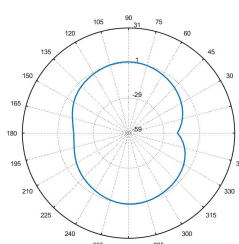
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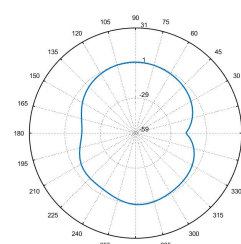
Total_Polar_H_2.4GHz



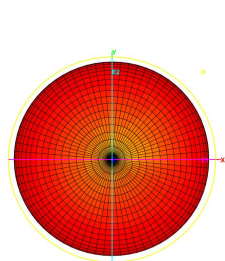
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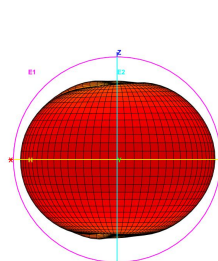
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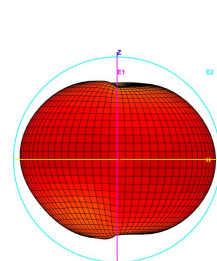
Total_3D_H_2.45GHz



Total_3D_E1_2.45GHz

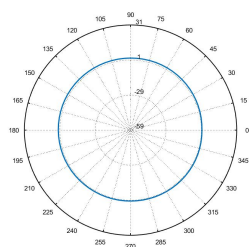


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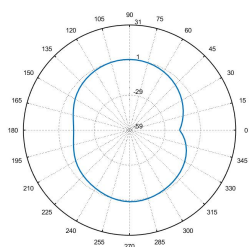




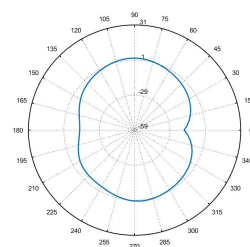
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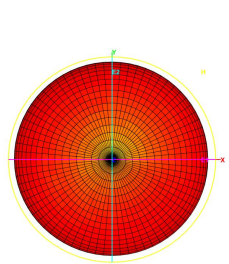
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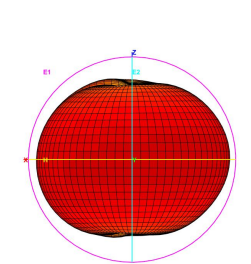
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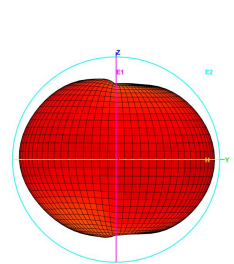
Total_3D_H_2.5GHz



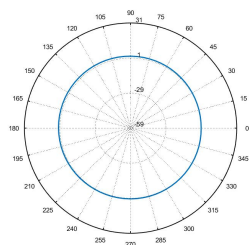
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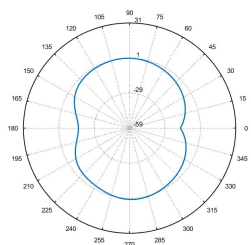
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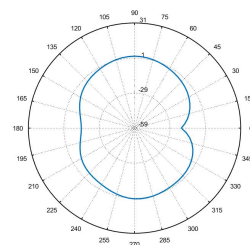
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Total_Polar_E1_2.5GHz



Total_Polar_E2_2.5GHz

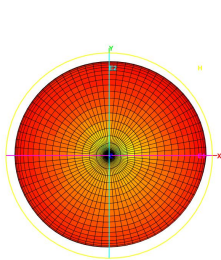




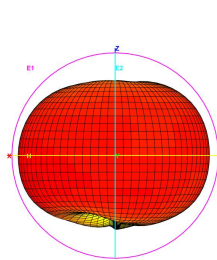
2D、3D 测试数据（5.8G）：

Frequency	Efficiency (%)	Gain. (dBi)
5150MHz	66.53	1.44
5250MHz	78.16	2.02
5350MHz	74.64	2.32
5450MHz	81.10	2.55
5550MHz	73.62	2.06
5650MHz	73.96	1.98
5750MHz	71.12	2.19
5850MHz	62.52	1.47

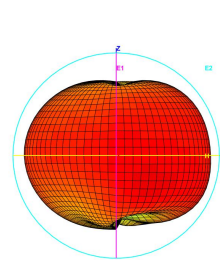
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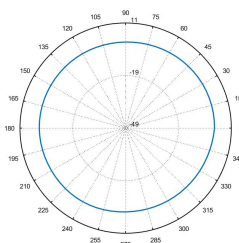
Total_3D_E1_5.15GHz



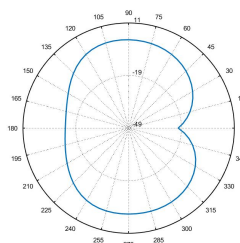
Total_3D_E2_5.15GHz



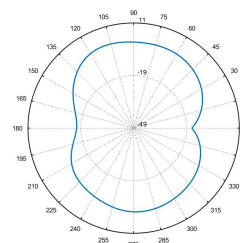
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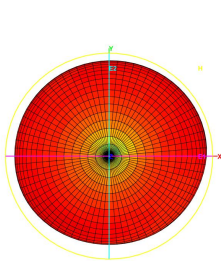
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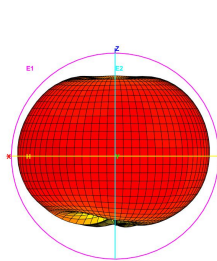
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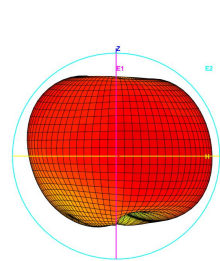
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Total_3D_E1_5.45GHz

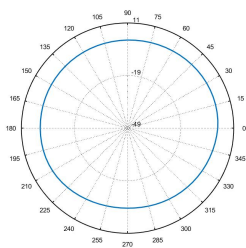


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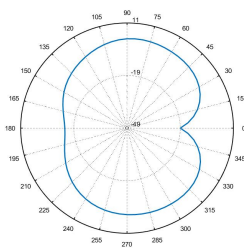




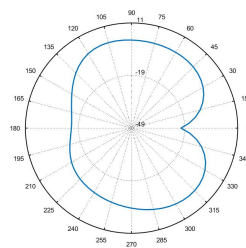
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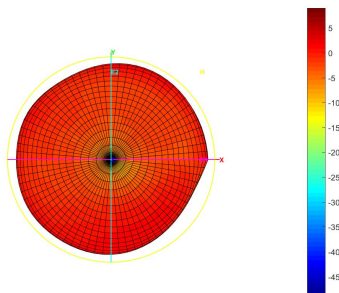
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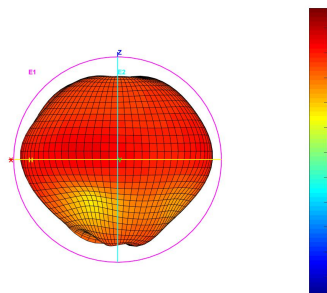
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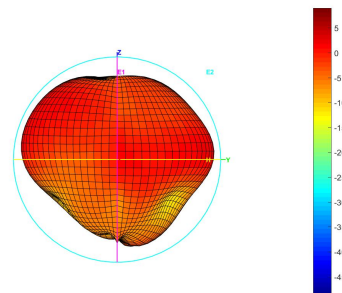
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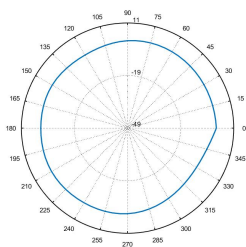
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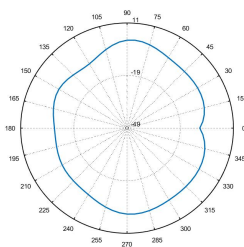
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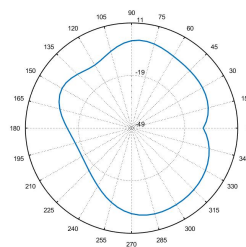
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Total_Polar_E1_5.85GHz



Total_Polar_E2_5.85GHz





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ROHS 物料控制报告

兹证明向贵司交货的零组件、辅助材料所使用的原材料、以及生产工程中的添加剂等均符合 RoHS 限制使用有害物质指令的环保要求 (RoHS 指令 2011/65/EC)

关于零组件、辅助材料所使用的原材料、包装材料以及和产过程中使用的添加剂等的构成成份报告如下:

组成物料名称 Component /Part Name	组成材料 Material Composition	ICP 报告编号 ICP report #	测试机构 Test Org.	测试时间 Test Date	有害物质含量(ppm)						是否合格? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
杆套+防火	TPEE	CANEC23000634202	SGS	23/03/13	ND	ND	ND	ND	ND	ND	PASS
	PC	SZXML2300036201	SGS	23/03/02	ND	ND	ND	ND	ND	ND	PASS
铜管	黄铜带	NGBEC23001873103	SGS	23/05/18	ND	17	ND	ND	ND	ND	PASS
环保锡丝	环保锡丝	ZXEC2203054802	SGS	22/09/19	ND	46	ND	ND	ND	ND	PASS
线材	RG178同轴 线缆	CANEC2301851701	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
热缩套管	热缩套管	CANEC2226901506	SGS	22/12/21	ND	ND	ND	ND	ND	ND	PASS
硅胶塞	硅胶	CANML2220121001	SGS	22/10/18	ND	ND	ND	ND	ND	ND	PASS
SMA	黄铜	CANEC2300141006	SGS	23/01/10	ND	26046	ND	ND	ND	ND	PASS
	胶芯	SHAEC22000767002	SGS	22/08/23	ND	ND	ND	ND	ND	ND	PASS
	镍镀层	SZXEC2203378506	SGS	22/10/25	ND	ND	ND	ND	ND	ND	PASS