

 东莞市松汇电子通讯有限公司
Dongguan SongHui Electronics Communication Co.,Ltd.

华越科技(香港)股份有限公司
Sunlight Tech. (HK) Holding Limited

规格承认书
SPECIFICATION FOR APPROVAL

客 户
CUSTOMER: _____

客 户 料 号
CUSTOMER NO: _____

品 名 **RF Antenna L=165 mm**
PART NAME: _____

供 方 料 号 **SL026Z.300005.Z01**
SUPPLIER NO: _____

送样日期 Date: 2010.12.15

送样数量 Q'TY: 5PCS

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
	ZhangLian	Ronnie

SH-RD-F04-A

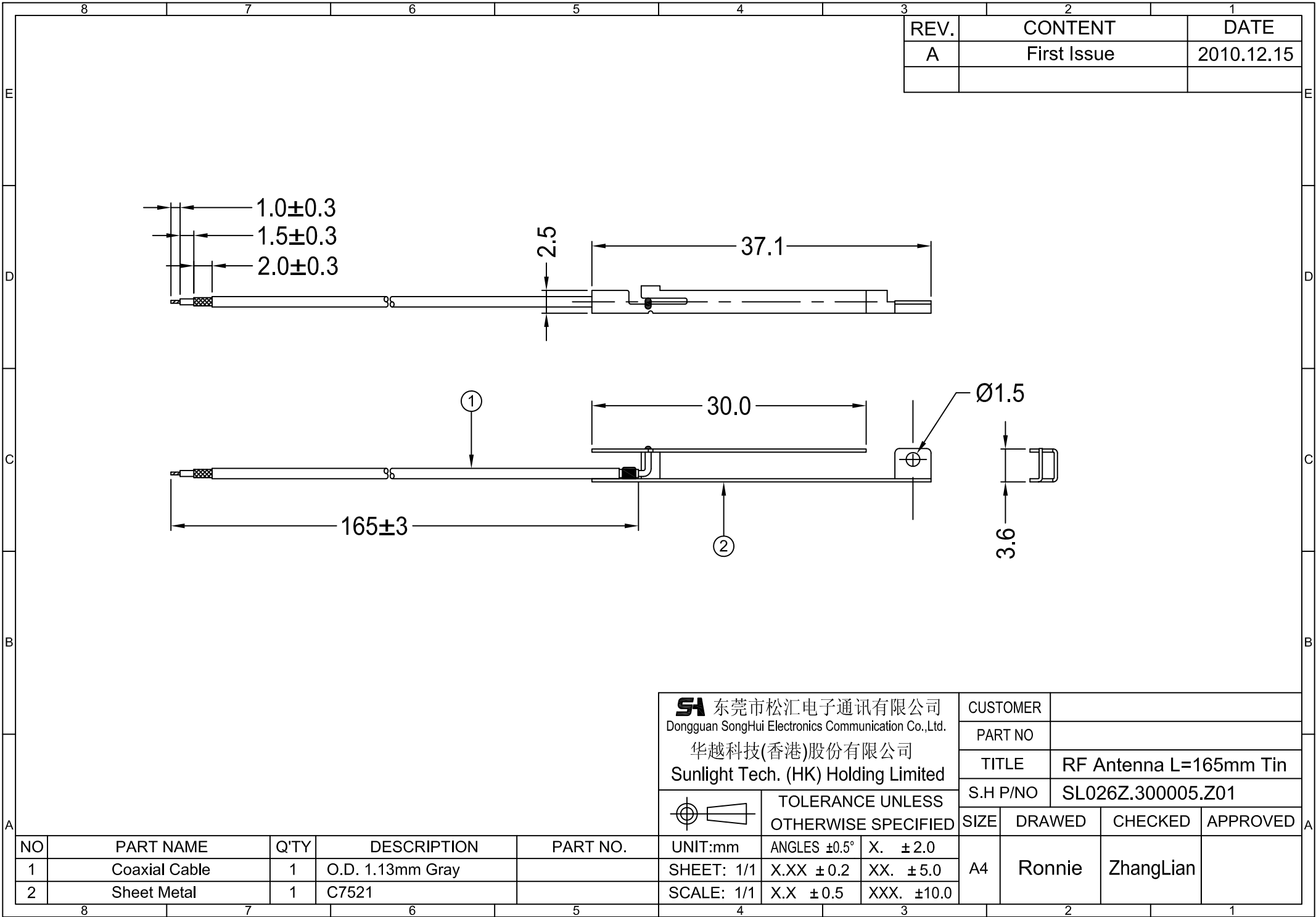
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电话: 0769-23076959 传真: 0769-23076859
邮编: 523808



承认书项目表

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电 性 测 试 报 告

Test Reports

Electrical Properties	
Frequency	2400 – 2500 MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2 dBi
Cable Loss	3.2 dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	None
Physical Properties	
Antenna Material	Cu (C7521)
Cable Type	O.D. 1.13mm // 165 mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray

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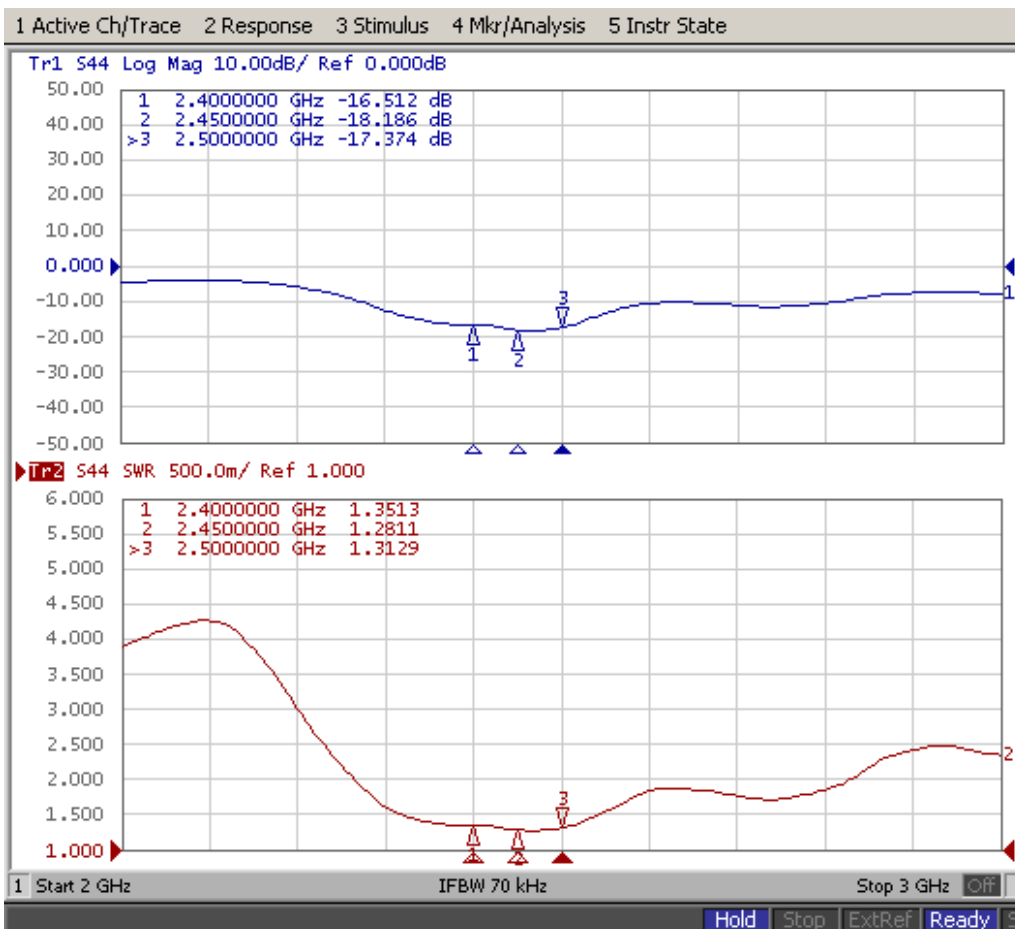
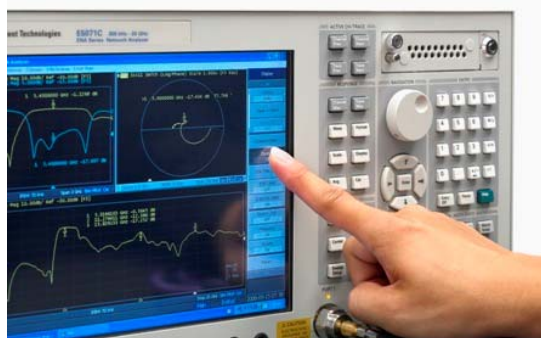
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S 参数测试

S Parameter Test

Agilent E5071C



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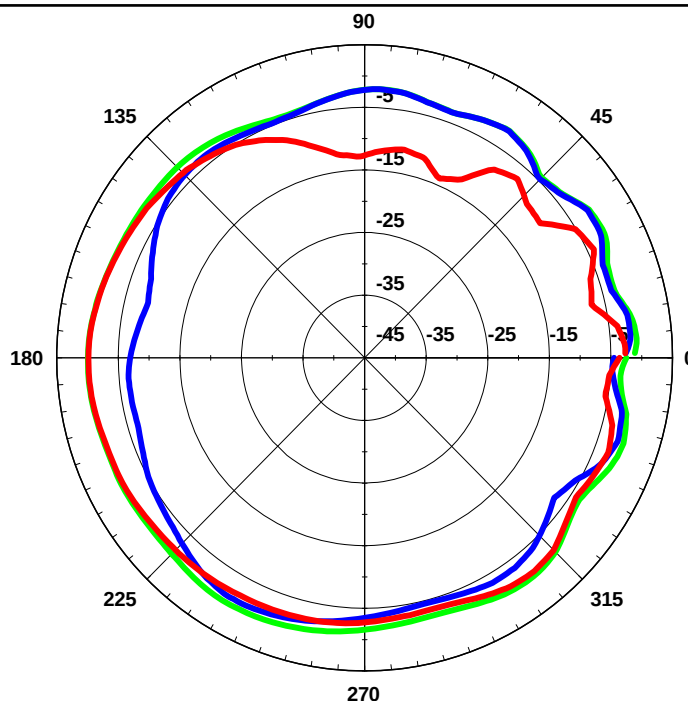
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增益测试

Gain Test

*Antenna
Radiation
Pattern
VS
Gain*



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可靠度测试表

Reliability Test (1)

Test Item	Test Condition and Procedure	Requirements
Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35° C; RH: >=95%; NaCl sloution: >=5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
Humidity	MIL-STD-202G, 103B, cond. B Temp: 40° C; RH: >=95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
Thermal Shock	1 Cycle: - 40° (30 minutes) to + 90° C (30 minutes) Cycles: 48	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
Random Drop	Heighth: 1.0M; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%

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可靠度测试表

Reliability Test (2)

Test Item	Test Condition and Procedure	Requirements
Solderability	MIL-STD-202G, 210F, cond. A Solder iron: $350 \pm 10^{\circ} \text{C}$; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
Terminal Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$
Terminal Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol. $\leq 5\%$
Dimension	Inspection of dimension, color, material, package	Directive DUT specification
Voltage Breakdown	MIL-STD-202G, 301 Test voltage should be applied between insulated portions, or between ground as specified.	Max Voltage: $\geq 1000 \text{ V}$ DC or directive material specification
Insulation Resistance	MIL-STD-202G, 302, cond. B Test Voltage: $500 \pm 50 \text{ V}$; between the insulated portions, or between ground as specified.	Resistance $\geq 10 \text{ M ohm}$ or directive material specification

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可靠度测试表

Reliability Test (3)

Test Item	Test Condition and Procedure	Requirements
DC Resistance	MIL-STD-202G, 303 Air Temp: 25° C; measured with test equipment	Directive material specification
S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC

产 品 检 测 单

客户：001

产品名称	白铜	产品规格	0.02mm
产品牌号	C7521	产品状态	H
厚度公差	-0.01	宽度公差	——

化学成份（%）

铜 Cu	64.08-64.71	锌 Zn	余量	铁	0.075-0.088
锡 Sn	0.035-0.046	磷 P	0.015-0.017	铅	0.008-0.008
锑 Sb	——	硅 Si	——	铋	——
镍 Ni	17.13-17.74	锰 Mn	0.230-0.294	铝	——
银 Ag	——	砷 As	——	杂质总和	

物理特性

抗拉强度 N/mm2	684.7	延伸率 （%）	7
杯突值	——	维氏硬度 HV	207

生产批号：2006091908

检验员：李健

确认：Tenny

Coaxial Cable Datasheet

O.D. 1.13 mm (AWG32) Coaxial Cable Specification

1. Cable Type	O.D. 1.13 mm (AWG32)	
2. Impedance	50 ± 3 ohm	
3. Inner Conductor	Material	silver-coated cooper
	Conductor Numbers	7
	Conductor Size	0.08 mm
	Outer Diameter	0.24 mm
4. Dielectric Layer	Material	FEP
	Color	Clear
	Average Thickness	0.22 mm
	Diameter	0.68 mm
5. Braid (Shielding)	Material	tin-coated cooper
	Construction	16-4-0.05 mm
	Coverage	90 %
6. Outer Cover	Material	FEP
	Color	Black / white / gray
	Average Thickness	0.10 mm
	Diameter	1.13 ± 0.05 mm
7. V.S.W.R Testing (DC ~ 6GHz)	< 1.3	
8. Attenuation (dB / 1 meter)	100 MHz	0.60
	400 MHz	1.25
	1800 MHz	2.23
	2400 MHz	2.70
	5200 MHz	4.15
9. Capacitance	97 ± 3 (pF / meter)	
10. Maximum Power	30 dBm	
11. Spark Test	500 V	
12. Rating Temp. and Volt.	200°C / 30V	
13. Conductor Resistance	520 ohm / KM / 20°C max.	
14. Dielectric Resistance	1500 M ohm / KM / 20°C min.	