



Exceltek Electronics (Kunshan) Co., Ltd.
Specification For Approval

Customer: 合勤

Description: ANTENNA,RF PCB ANTENNA
ASSEMBLY,ROHS,C0265-ANG0006,CABLE
LENGTH 130MM,Exceltek

Customer P/N: 65-031-087010B

Exceltek P/N: C0265-ANG0006

Customer Rev: N/A

Exceltek Rev: SB **Date:** 2010.08.23

Customer Approval Result

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Exceltek Approval



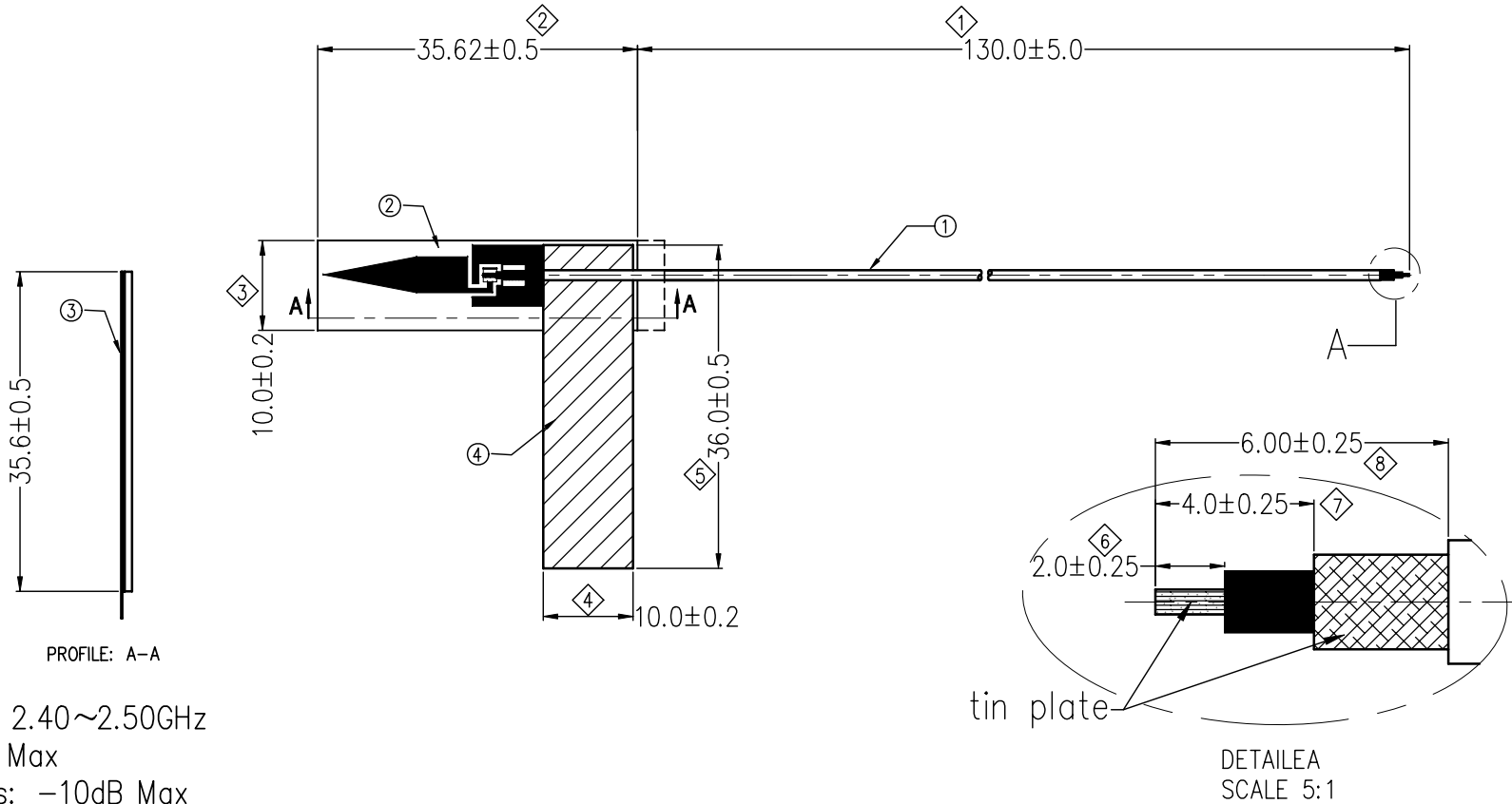
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REVISIONS			
REV.	ECN#	DESCRIPTION	CHNGD BY/ DATE
SA	XX-XX-XX	FRIST RELEASE FOR SAMPLE BUILD	Angel/2010.07.26
SB	XX-XX-XX	ADD CUSTOMER P/N	Angel/2010.08.23



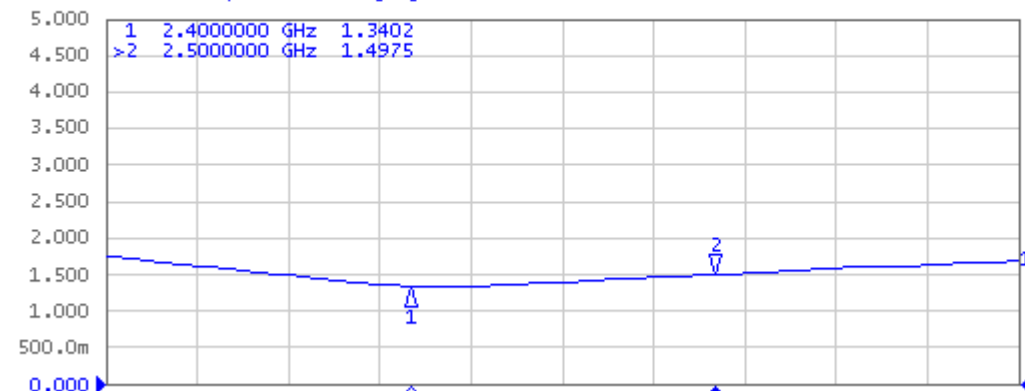
NOTES:

- >Frequency: 2.40~2.50GHz
- >VSWR: 2.0 Max
- >Return Loss: -10dB Max
- >Peak gain: 3.0dBi(Excluding cable loss)
- >Impedance: 50 ohm
- >Radiation: Omni-directional
- >Polarization: Vertical
- >Admitted Power: 1W
- >Operating temperature range -30°C to +70°C.
- >Storage temperature: -40°C to +90°C

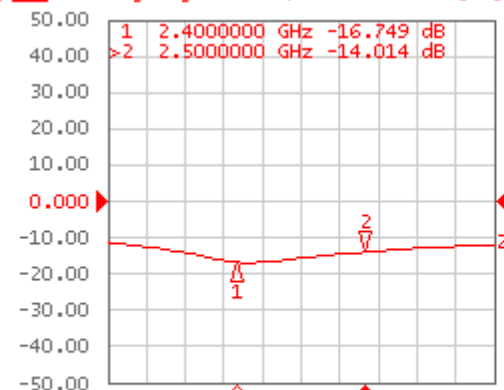
ITEM	NAME	MATERIAL	QTY
④	Aluminium foil	Adhesive Aluminium Foil 36*10mm	1PC
③	Foam tape	Double coated foam tape ;W35.0*L9.0mm	1PC
②	PCB	PCB,FR4,H0.80mm	1PC
①	Coaxial cable	Ø1.13 Coaxial Cable, Color:Grey	1PC
BILL OF MATERIAL			

THIRD ANGLE PROJECTION 	DRAWING APPROVAL				
	DWN:	Angel			CUS:
TOLERANCES UNLESS OTHERWISE SPECIFIED	CHKD:	Eric	EXK P/N:	C0265-ANG0006	
	APPD:	Venus	CUS P/N:	65-031-087010B	
ONE PLACE DECIMAL .X	N/A	SIZE:	A4	UNIT:	mm
TWO PLACE DECIMAL .XX	N/A	SCALE:	— : —		
THREE PLACE DECIMAL .XXX	N/A	SHEET:	1 OF 1	CUS REV:	N/A
HOLE DIA. VARIATION .XX	N/A	EXC REV:	SB		
ANGULAR DIMENSION (ENG)	N/A				

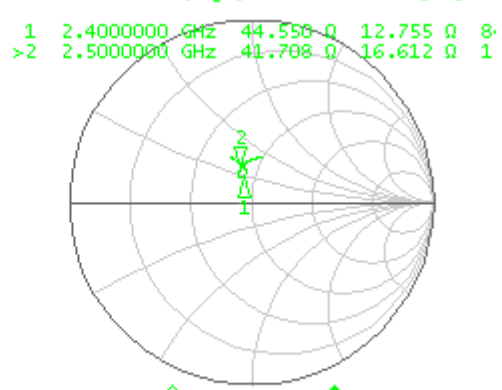
Tr1 S22 SWR 500.0m/ Ref 0.000 [F1]



Tr2 S22 Log Mag 10.00dB/ Ref 0.000dB [F1]



Tr3 S22 Smith (R+jX) Scale 1.000U [F1]



2 Start 2.3 GHz

IFBW 70 kHz

Stop 2.6 GHz Cor

System

Print

Abort Printing

Printer Setup...

Invert Image

OFF

Dump

Screen Image...

Multiport Test Set
Setup

Misc Setup

Backlight

ON

Firmware

Revision

Meas

Stop

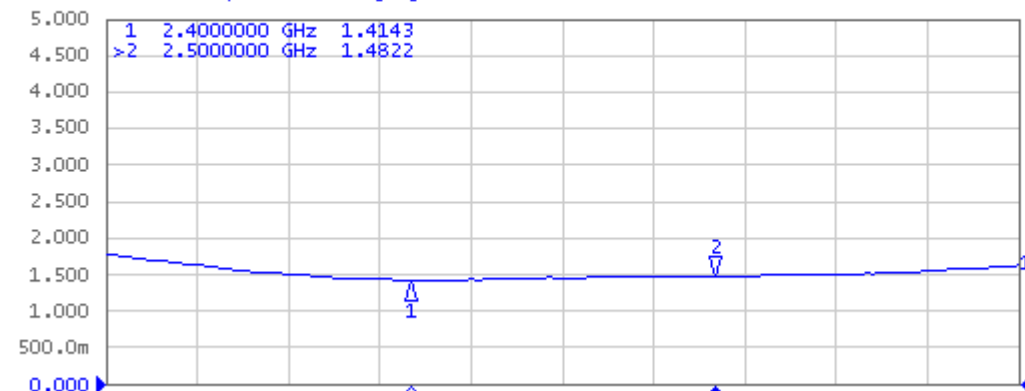
ExtRef

Ready

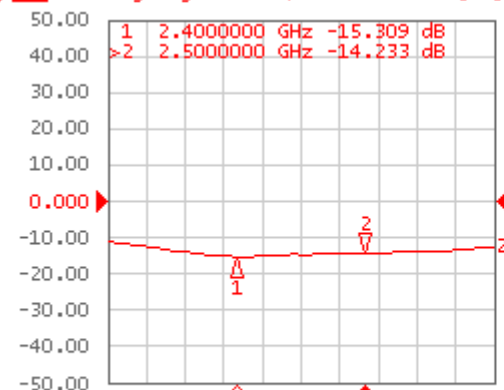
Svc

2010-05-27 08:45

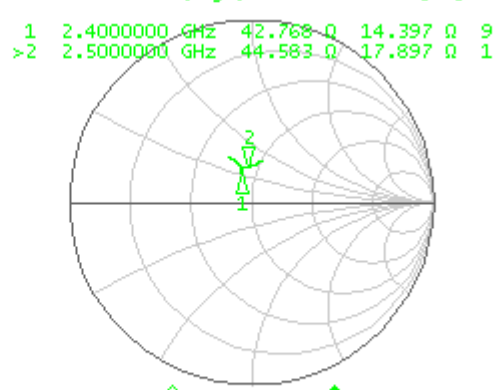
Tr1 S22 SWR 500.0m/ Ref 0.000 [F1]



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System

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Screen Image...

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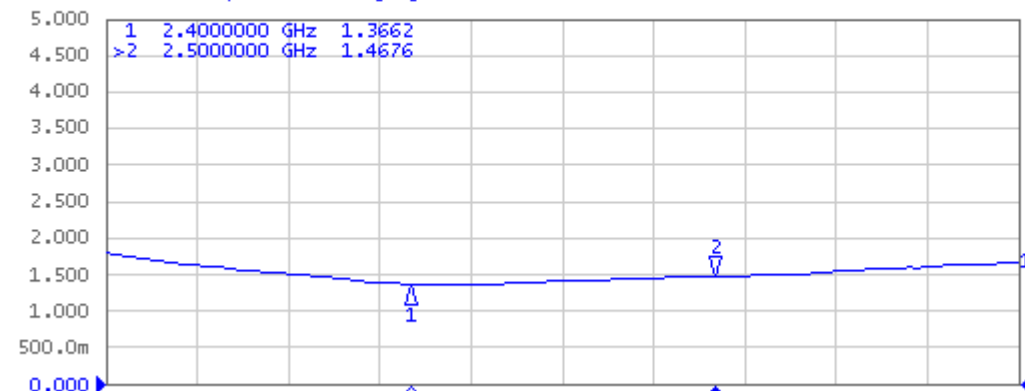
Backlight

ON

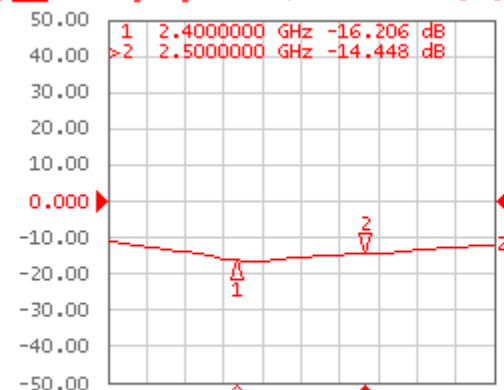
Firmware

Revision

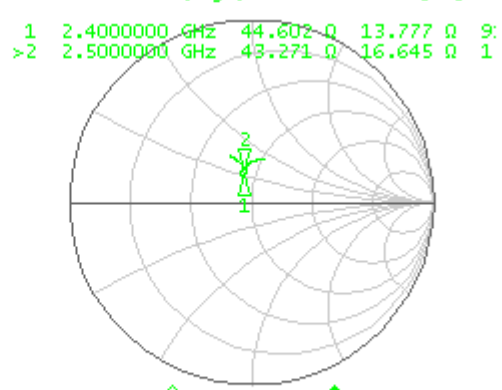
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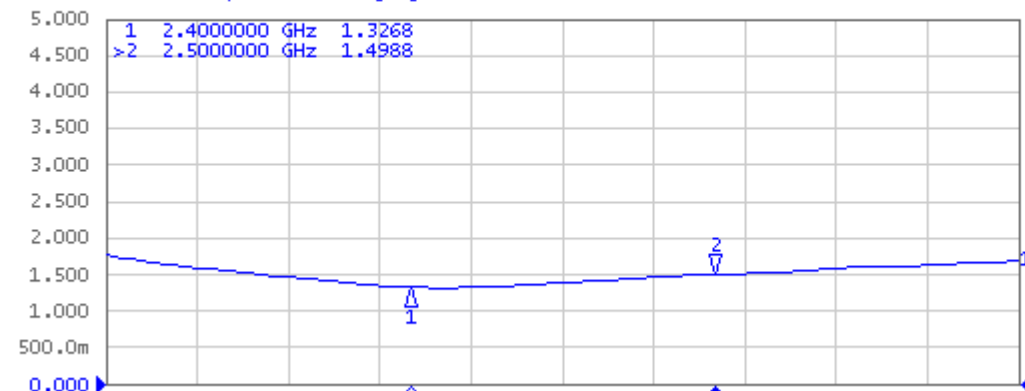
ExtRef

Ready

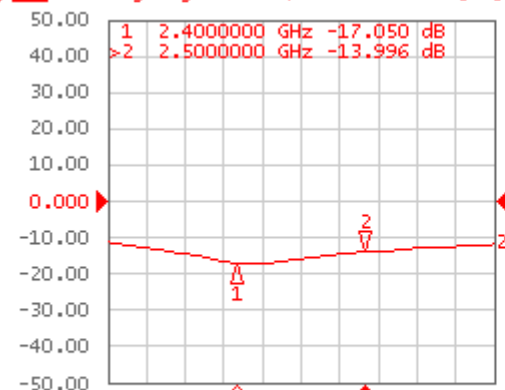
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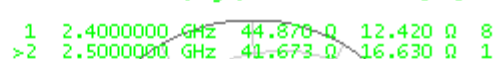
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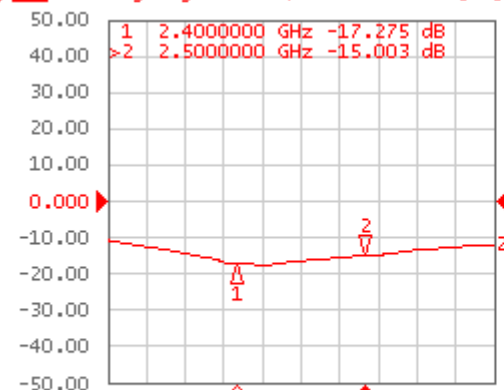
Svc

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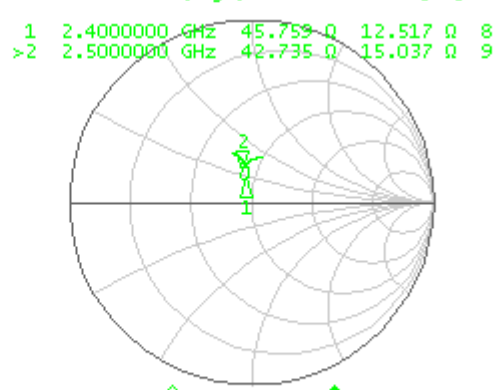
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Tr2 S22 Log Mag 10.00dB/ Ref 0.000dB [F1]



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Misc Setup

Backlight

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Firmware

Revision

Meas

Stop

ExtRef

Ready

Svc

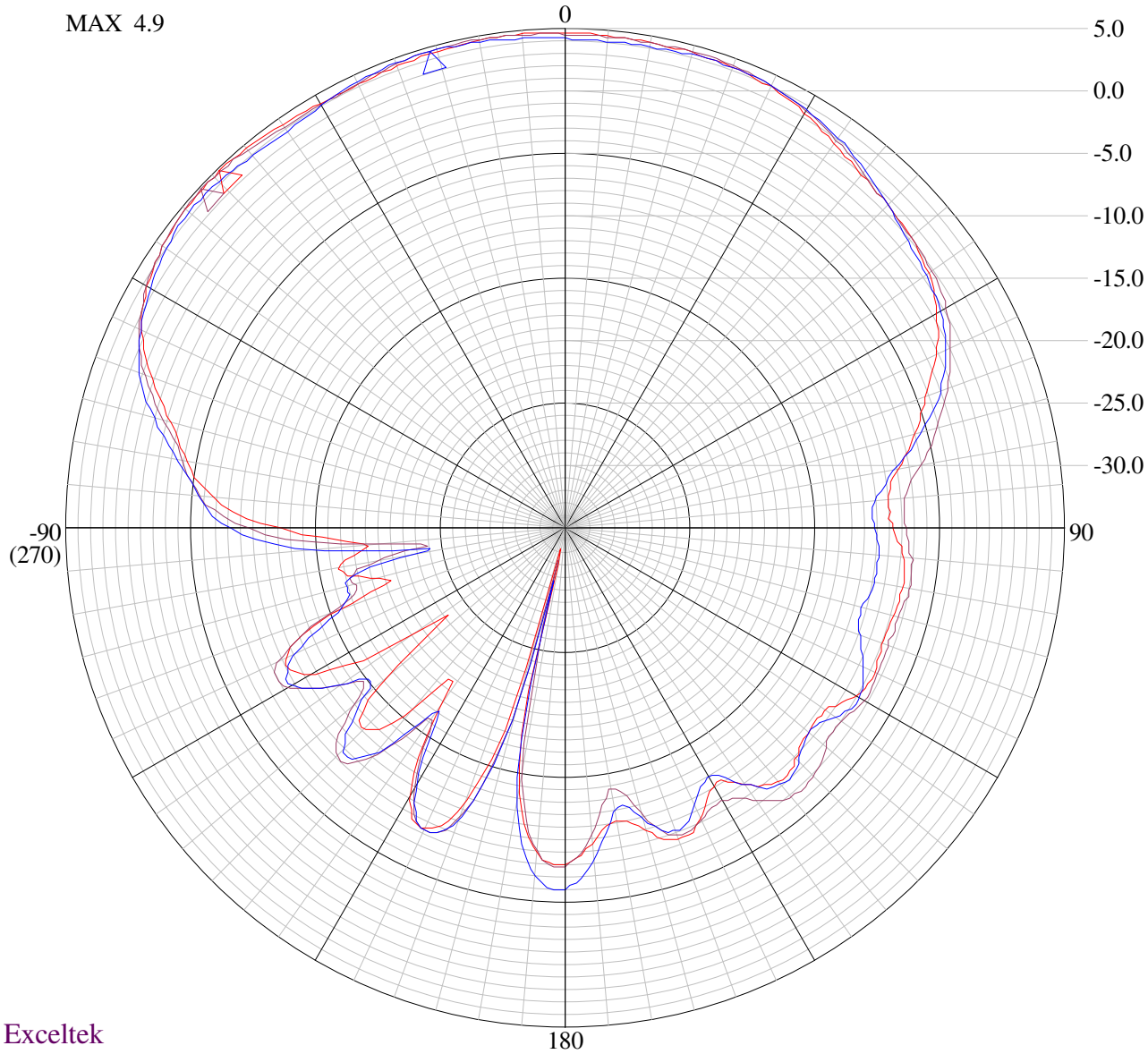
2010-05-27 08:46



Scanner System

Far Field Patterns

E-Plane Linear: 0-deg Cuts



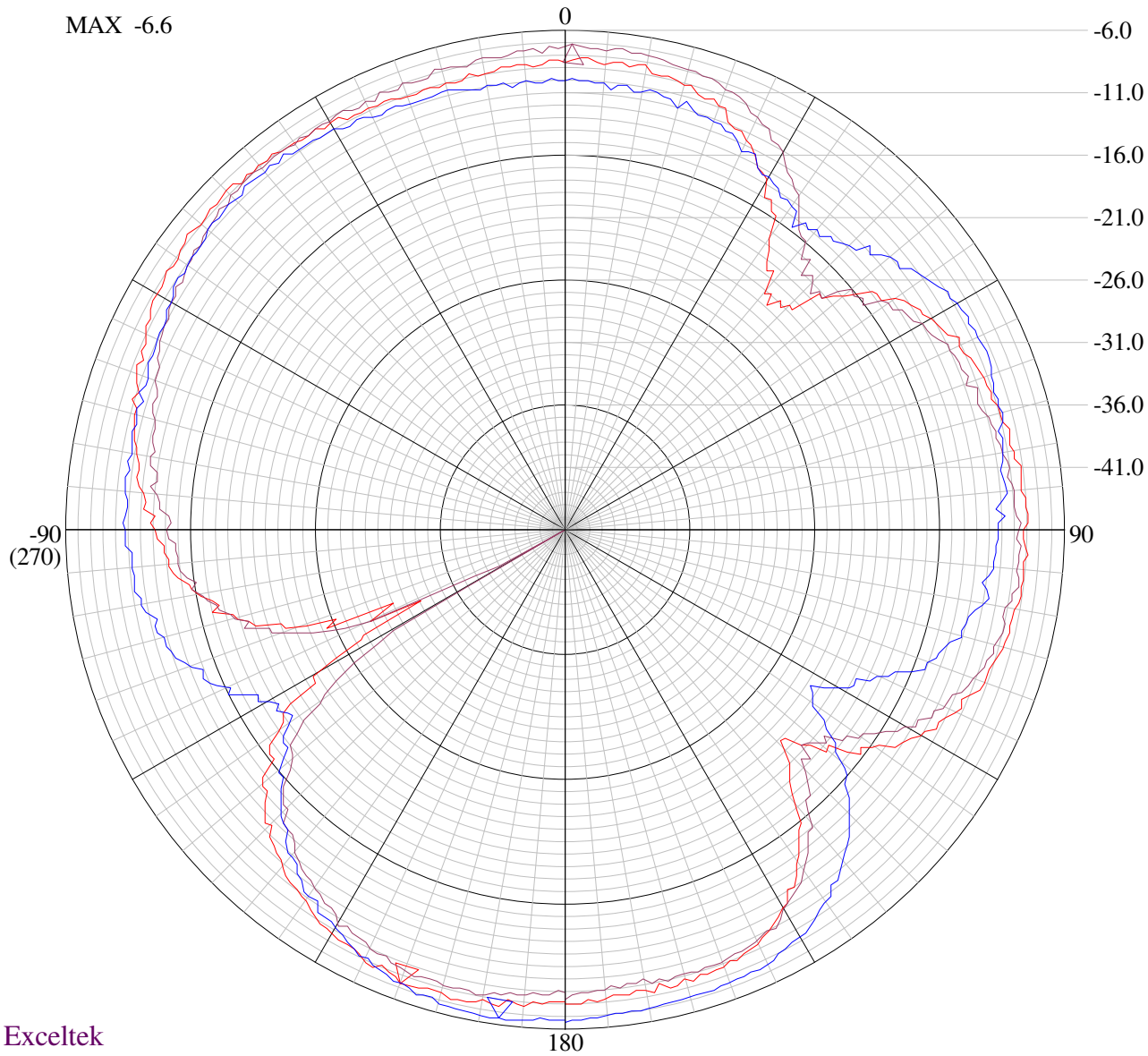
Line Name	Peak Angle	Max Value	Deep Angle	Min Value	Ave Value
2.4000GHz	-44.0	4.9	-165.0	-33.4	-5.3
2.4500GHz	-47.0	4.9	-166.0	-32.4	-4.7
2.5000GHz	-16.0	4.8	-166.0	-30.7	-5.0



Scanner System

Far Field Patterns

H-Plane Linear: 0-deg Cuts



Line Name	Peak Angle	Max Value	Deep Angle	Min Value	Ave Value
2.4000GHz	-160.0	-7.4	-116.0	-33.1	-11.7
2.4500GHz	1.0	-7.1	-118.0	-47.4	-12.1
2.5000GHz	-172.0	-6.6	122.0	-22.7	-11.1

EXCELTEK ELECTRONICS (K.S) CO.,LTD
SAMPLE INSPECTION REPORT

CUSTOMER	合勤	PART NUMBER	65-031-087010B		REV	SB	
		QTY	5PCS		DATE	2010.08.23	
PART DESCRIPTION: ANTENNA, RF PCB ANTENNA ASSEMBLY, ROHS, C0265-ANG0006, CABLE LENGTH 130MM, Exceltek							
ITEM	SPECIFICATION	INSPECTION RESULTS					OK / NG
Molding parts	Cosmetic inspection standard	No under filling/shrinkage/bubbles					OK
Dimension-1	130.0±5.0mm	130	131	130	129.5	130	OK
Dimension-2	35.62±0.50mm	35.6	35.62	35.62	35.60	35.60	OK
Dimension-2	10.00±0.20mm	9.98	10.00	10.00	10.05	9.98	OK
Electric test 1	VSWR≤2.0:1	See electric test report					OK
NOTES:					APPROVED	REVIEWED	
					<i>Venus</i>	<i>Eric</i>	
CUSTOMER APPROVAL							
ITEM	SPECIFICATION	INSPECTION RESULTS					OK / NG
RESULT: <input type="checkbox"/> APPROVED: <input type="checkbox"/> CONDITIONAL APPROVED: <input type="checkbox"/> REJECTED							
NOTES:					APPROVED	CONFIRMED	CHECKED
EXCELTEK → CUSTOMER → EXCELTEK FAX NO: (86) 512 - 57450691							



Exceltek Electronics (Kunshan) Co., Ltd.

良特电子（昆山）有限公司

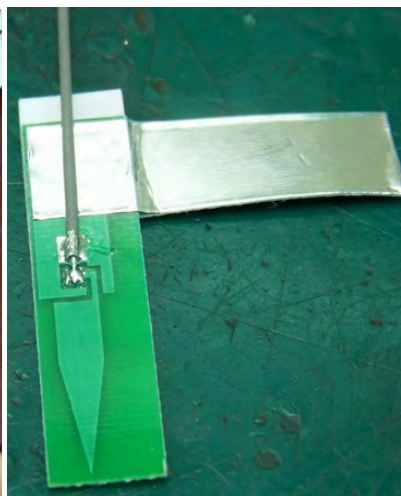
作业指导书

良特料号	C0265-ANG0006	文件编号	SOP-C0265-***-G	核 准	审 核	制 作
客户料号	65-031-087010B	工序名称	焊接PCB板	Venus	Eric	Angel
页版号	B					
制订日期	Aug. 23. 2010					

图1



图2



操作 步骤	<ol style="list-style-type: none"> 1. 将灰色线材J2端放到PCB板的相应位置进行焊接，焊接后线材不可歪斜，焊接锡点光亮，不可有假焊等任何不良。 2. 焊接时需控制焊接时间与温度，并先焊接中心导体，不可烫伤绝缘体。 3. 焊接参考温度：$380 \pm 20^{\circ}\text{C}$ 	安全 与 注意 事项	<ol style="list-style-type: none"> 1. 焊中心针锡丝为0.5mm或0.6mm。 2. 焊接后，焊接锡点光亮，不可有假焊，不可烫伤绝缘体与外被 3. 焊接参考温度：$380 \pm 20^{\circ}\text{C}$ 	
	物料		品名/规格	备注
	PCB单面板 材质:FR4 35.6*10.0*0.80mm RoHS			手动烙铁



2600 N.W. Lake Road
Camas, WA 98607-8542
United States Country Code (1)
(360) 817-5500
FAX No. (360) 817-5000
<http://www.ul.com>

File E216252

Vol. 1

Issued: 6-4-01

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

COMPONENT - APPLIANCE WIRING MATERIAL
(AVLV2)

Manufacturer: (118711-001) JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD
QINGYANG TOWN
NANCHEN VILLAGE
JIANGYIN
JIANGSU 214401 CHINA

Applicant: (118711-001) SAME AS MANUFACTURER

Recognized Company: (118711-001) SAME AS MANUFACTURER

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and the representatives of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

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Vice President
Laboratory Management and Operations

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AVLV8.E216252

Appliance Wiring Material Certified for Canada - Component

Page Bottom

Appliance Wiring Material Certified for Canada - Component

See General Information for Appliance Wiring Material Certified for Canada - Component.

JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD

QINGYANG TOWN

NANCHEN VILLAGE

JIANGYIN, JIANGSU 214401 CHINA

E216252

Appliance wiring material, AWM Class I, Group A, B or A/B.

Marking: Company name or trademark  and Recognized Component Mark for Canada,  on the attached tag, the reel or the smallest unit container in which the product is packaged.

Last Updated on 2008-12-11

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AVLV2.E216252 Appliance Wiring Material - Component

Page Bottom

Appliance Wiring Material - Component


See General Information for Appliance Wiring Material - Component

JIANGYIN YUANDA ELECTRICAL MATERIAL CO LTD
QINGYANG TOWN
NANCHEN VILLAGE
JIANGYIN, JIANGSU 214401 CHINA

E216252

Table of Recognized Styles						
Single-conductor, thermoplastic insulation.						
1330	1332	1726	1857	1859	10362	
1331	1333	1727	1858	1860	11149	
Single-conductor, thermoset insulation.						
3068	3122	3132	3140	3219	3323	3512
3069	3123	3135	3172	3223	3342	3529
3071	3125	3137	3212	3231	3350	3530
3074	3126	3138	3213	3268	3367	3604
3075	3129	3139	3215	3316	3410	3644



Marking: Company name or trademark , voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2009-07-03

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无锡源达电工材料有限公司

WUXI YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

客户/ Customer: _____

客户料号/ Customer P/N: _____

规格书

Specification

50 Ω (PFA) 绝缘射频电缆

50 Ω FEP Insulated Coaxial Cable

YD113 系列

YD113 SERIES

编制/ Signed by: cool lai

编制日期/ Date: 20th April 2009

无锡源达电工材料有限公司

WUXI YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

1. 适用范围:

Scope

本规格书制定了 50 Ω PFA 绝缘射频电缆 YD113 系列的结构和电气特性。

This specification covers the construction and the electrical properties of YD113 series of 50 Ω FEP Insulation Coaxial Cable.

2. 结构/Construction:

单位/Unit:mm

	项目/Item	详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver-coated Copper Wire
	构成(根/mm) Composition (No. /mm)	7/0.080
	标称直径/NOM. O. D	0.24±0.03
绝缘层 /Insulation	材料/Material	可溶性聚四氟乙烯/PFA
	标称绝缘厚度/Nom. Thick. (mm)	0.23
	标称外径/NOM. O. D	0.70±0.03
屏蔽层/Shield	材料/Material	镀锡铜线/Tinned annealed copper wire
	构成/Composition	0.05 单线编织/Single Braid of 0.05
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称护套厚度/ Nom. Thick (mm)	0.10
	标称外径/Nom. O. D (mm)	1.13±0.08
	颜色/Color	按与客户确认的颜色/According to corresponding have approved by the suppliers and customers

3. 电气特性(20℃时)/Electrical Properties(at 20℃)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	Max. 581
绝缘电阻/Insulation Resistance	MΩ. km	Min. 200
耐压强度/Dielectric Strength	V(AC)/min	1000
静电容/Capacitance	pF/m	105
特性阻抗 /Characteristic Impedance	Ω	50±2.0

无锡源达电工材料有限公司

WUXI YUANDA ELECTRICAL MATERIAL CO., LTD.

中国江苏省江阴市青阳镇南陈村 邮编 214401

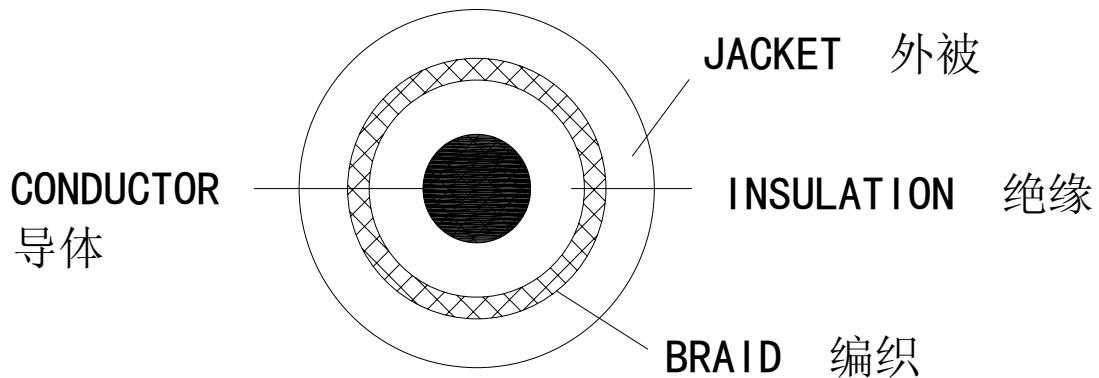
Nachen, Qingyang Town, Jiangyin City 214400, Jiangsu, China

衰减/Attenuation	dB/m	1GHz	2.20
		2GHz	3.10
		3GHz	3.90
		4GHz	4.50
		5GHz	5.00
		6GHz	5.50
驻波比/Standing wave (0-6GHz)	/	≤1.35	

4. 包装 Packing

标准单位包装长度为 1000 米/盘, 每盘最多允许 5 个接头, 接头最短长度 20 米, 在搬运过程中不能损坏包装.

Standard unit length of finished cable shall be 1000m on reel, frequency of joint max.5/reel, the mini length is 20m. The finished cable shall be packed not be damaged during transportation



本产品有时不适合车载用途的情况也有,所以使用前请先和本公司业务部门进行商谈.

This product is not suitable for automobile application in some cases. Please contact with our sales department before you use this product.

规格书完

End of specification

ZPMV2

July 2, 2002

Wiring, Printed - Component


KUNSHAN ELECTRONIC COMPONENT FACTORY
6 WEST SHENGXIANG RD QIANDENG TOWN KUNSHAN,
JIANGSU 215341 CHINA

E226633

Type	Cond Width		Cond Thk Mils	SS/DS+	Max Area Diam In.	Sold Lts		Max Oper Temp C	UL94 Flame Class	Meets UL796 DSR #	CTI
	Min In.	Min Edge In.				C	Sec				
Single layer printed wiring boards.											
KSECF	0.013	0.014	0.67	DS	2.77	240	3	105	V-0	ALL	*

+SS-Single sided, DS-Double or single sided.

*CTI PLC is marked on individual board.

Marking: Company name or Trademark  and type designation.

See General Information Preceding These Recognitions

A (black triangle) Symbol is marked on those products within a given type designation that comply with direct support of current-carrying parts performance level requirements

9/10/2002

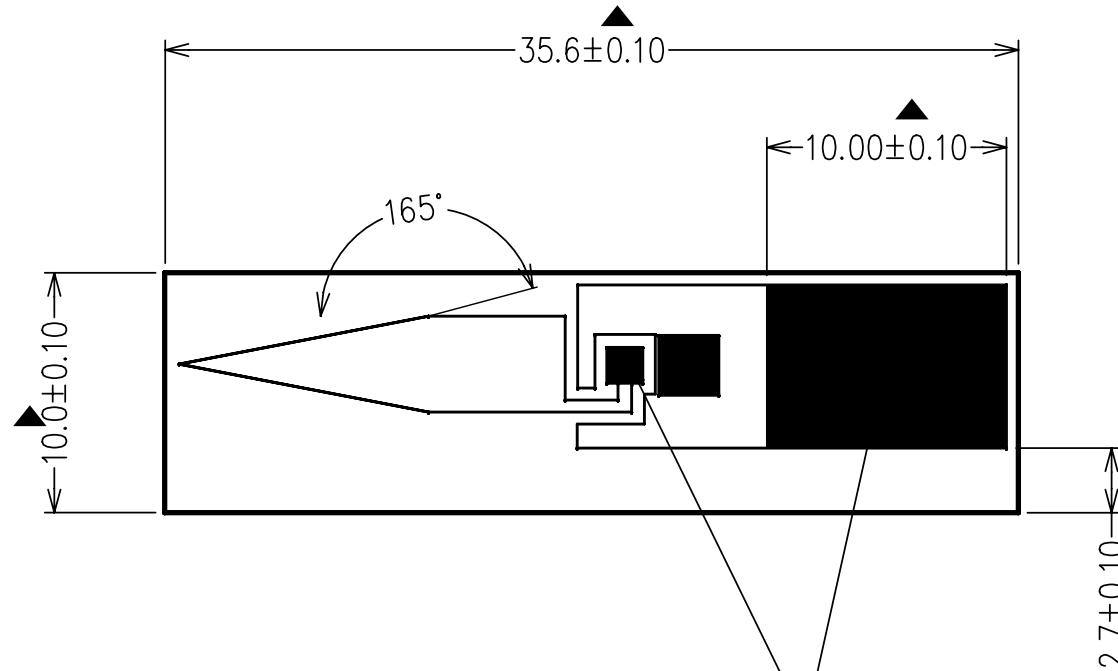
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REVISIONS			
REV.	ECN#	DESCRIPTION	CHNGD BY/ DATE
SA	XX-XX-XX	FRIST RELEASE FOR SAMPLE BUILD	Angel/2010.07.19

THE COMPONENT(S), INCLUDING ANY PLATING OR COATINGS, SUPPLIED PER THIS DRAWING MUST BE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (RoHS DIRECTIVE)



NOTES:

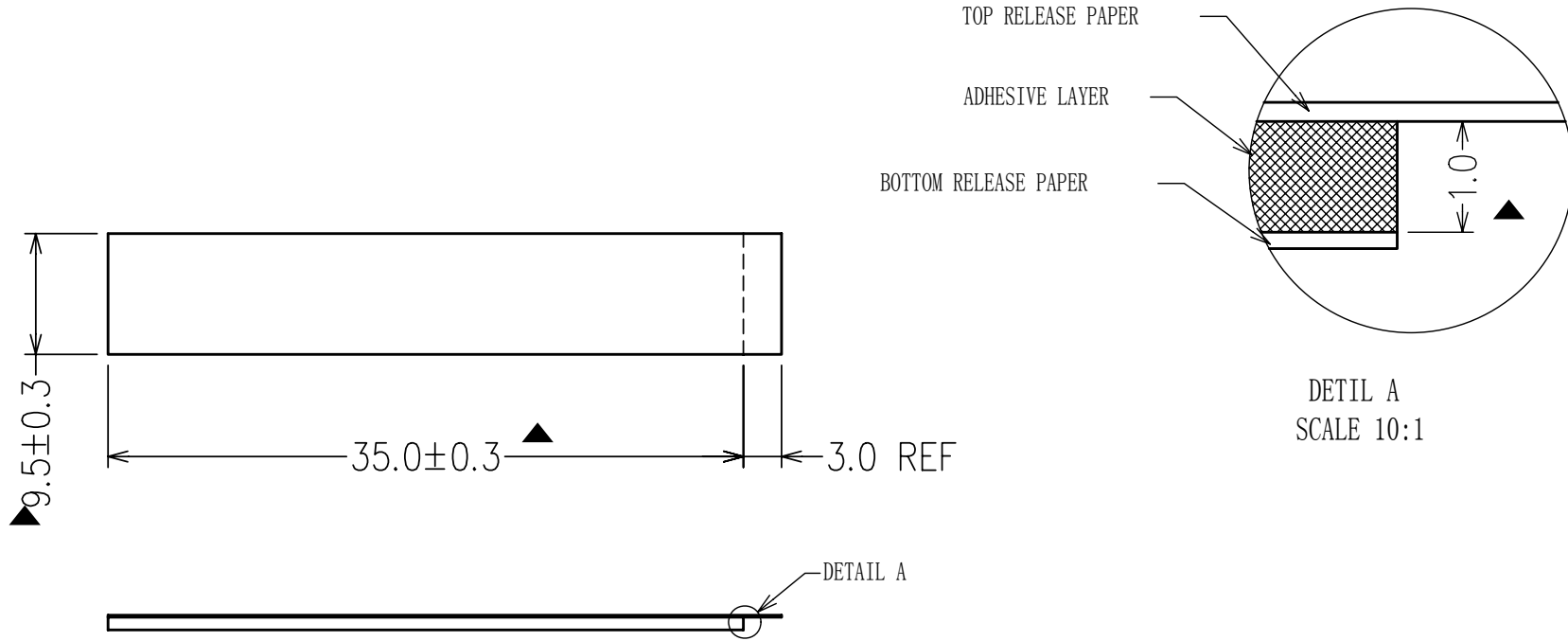
1. Dimension marked ▲ should be checked.
2. PCB Total Thickness is 0.80+/-0.10mm
3. Material: FR4(1oz Copper for one side)
4. OSP:Nominal Coating Thickness=0.2~0.5um, Color:Green
5. The shadow section of PCB must be covered by soldermask.
6. Plating is smooth and uniform, The maximum shift less than 0.025mm
7. PCB thermal resists is max 288C, time is 10second.3 Times
8. Material must meet UL 94V-0

THIRD ANGLE PROJECTION 	DRAWING APPROVAL			
	DWN: <i>Angel</i>			
TOLERANCES UNLESS OTHERWISE SPECIFIED	CHKD: <i>Eric</i>		CUS: ZyXEL	EXK P/N: DPB1102200GD020
	APPD: <i>Venus</i>		CUS P/N:	
ONE PLACE DECIMAL .X	N/A	SIZE: A4	UNIT: mm	
TWO PLACE DECIMAL .XX	N/A	SCALE: — : —		
THREE PLACE DECIMAL .XXX	N/A	SHEET: 1 OF 1		
HOLE DIA. VARIATION .XX	N/A	CUS REV: A		
ANGULAR DIMENSION (ENG)	N/A	EXC REV: SA		
			ITEM: PCB,FR4 35.6*10.0*0.80mm	

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REVISIONS			
REV.	ECN#	DESCRIPTION	CHNGD BY/ DATE
SA	XX-XX-XX	FRIST RELEASE FOR SAMPLE BUILD	Angel/2010.07.19



notes:

1. Dimension marked ▲ should be checked.
2. Adhesive layer thickness is 1.0+/-0.10mm
3. Part to be clean and free of all foreign material, dirt, oir, grease or other contaminants

THIRD ANGLE PROJECTION		DRAWING APPROVAL			
		DWN: <i>Angel</i>			
		CHKD: <i>Eric</i>		CUS: ZyXEL	EXK P/N: HJD11102GB020
TOLERANCES UNLESS OTHERWISE SPECIFIED		APPD: <i>Venus</i>		ITEM: Double coated foam top; W9.5XL35.0mm	
ONE PLACE DECIMAL .X	N/A	SIZE: A4	UNIT: mm	SHEET: 1 OF 1	
TWO PLACE DECIMAL .XX	N/A	SCALE: — : —		CUS REV: A	EXC REV: SA
THREE PLACE DECIMAL .XXX	N/A				
HOLE DIA. VARIATION .XX	N/A				
ANGULAR DIMENSION (ENG)	N/A				



Declaration of RoHS Conformity

To minimize the environmental impact and take more responsibility to the earth we live, Exceltek Electronics (KunShan) Co., Ltd. hereby confirms that the following product series comply with Directive 2002/95/EC of the European Parliament - RoHS (Restriction of Hazardous Substances).

Content of Compliance

Lead	<0.1 % by weight (1000 ppm)
Mercury	<0.1 % by weight (1000 ppm)
Cadmium	<0.01 % by weight (100 ppm)
Hexavalent Chrome (Cr ⁺⁶)	<0.1 % by weight (1000 ppm)
PBBs	<0.1 % by weight (1000 ppm)
PBDEs	<0.1 % by weight (1000 ppm)

Applications of lead, mercury, cadmium and hexavalent chromium, which are exempted from the requirements of 2002/95/EC Article 4(1).

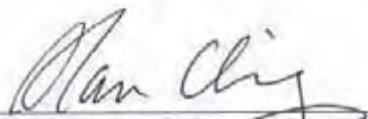
- ⊙ Lead as an alloying element in steel containing up to 0.35 % lead by weight, aluminium containing up to 0.4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
- ⊙ Lead in high melting temperature type solders (i.e. tin-lead solder alloys containing more than 85 % lead).

Product Series

RF Cables, Antenna Cables, Earphone Cables, Wire harnesses, Computer Cables, Medical Cables, Connectors will be compliance to RoHS.

Delivery

The actual delivery date for RoHS compliance products will depend on our inventory status. Please contact our sales representatives for details.

 2008/1/10

Alan Chiang / General Manager
Exceltek Electronics (Kun Shan) Co., Ltd.



quality austria
Succeed with Quality



CERTIFICATE



Quality Austria Training, Certification and Evaluation Ltd. awards this Quality Austria Certificate to the following organisation(s):

EXCELTEK ELECTRONICS (KUNSHAN) CO.,

LTD.

No. 233, South Binjiang Road, Zhangpu Town,
Kunshan City, Jiangsu, China

Scope of application: Manufacture of antenna
and related cables used for automobile

NACE Code: 27.3.2 EAC: 19

Remote supporting function: None

The organisation(s) have been audited in accordance
with the "rules for the registration scheme for ISO/TS
16949 certification bodies, 3rd edition 1. October 2008".

This Quality Austria Certificate confirms the
application and further development of an
effective

QUALITY MANAGEMENT SYSTEM

complying with the requirements of standard

ISO/TS 16949:2002 (without product design)

Registration No.: 01274/0

IATF-Registration No.: 0080838

Date of initial issue ISO/TS 16949:2002: 26 March, 2009

Valid until: 25 March, 2012



qualityaustria



Vienna, 26 March, 2009

Quality Austria Training, Certification and Evaluation Ltd.

Viktor Seitschek

TR Ing. Viktor Seitschek
President

Konrad Scheiber

Konrad Scheiber
General Manager

Gerald Perschler

Gerald Perschler
Specialist representative

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Quality Austria is the Austrian member of IAF and IAF International Certification (IACB).

Doc. No. QA/TS 24.002



OQS-CERTIFICATE



qualityaustria

Accredited in accordance with the Austrian accreditation law BGG: Nr. 446/1992 by the BAWA

Quality Austria Training, Certification and Evaluation Ltd. awards this Quality Austria Certificate to the following organisations:

EXCELTEK ELECTRONICS (KUNSHAN) CO., LTD.

No. 233, South Binjiang Road, Zhangpu Town, Kunshan City, Jiangsu Province, China

Activity Field: Design, manufacture, assembly & sales of connectors, cable assembly (antenna, earphone cables, wire harnesses, computer cables, medical cables, RF cables, power cables, etc.) and electronics assembly

NACE Code: 26.1.1 EAC: 19

The validity of the Quality Austria Certificate will be maintained only if surveillance audits performed and labeled on the certificate and renewal audits performed every three years.

This Quality Austria Certificate confirms the application and further development of an effective

ENVIRONMENTAL MANAGEMENT SYSTEM complying with the requirements of standard

ISO 14001:2004

Registration No.: 00474/0
Date of initial issue: 29 July, 2005
Valid until: 28 July, 2011

Vienna, 29 July, 2008

Quality Austria Training, Certification and Evaluation Ltd.

Blender
Schiber Hockenauer

TR Ing. Viktor Seitschek
President
General Manager

Ing. Wolfgang Hockenauer
Specialist representative



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