



# 承認書 Approval Sheet

PAO No :PAO-0800962

Page : 1 of 1

Date : 03/25/2008

Part No :6172018CIV	REV: 0	Where use:RT-880WD
Maker :INVAX System Technology Corp	Maker P/N :AN2400-5701RS	REV: 1.0
Part Name :ANTENNA	Vendor :INVAX	Place/Origin : TAIWAN/CHINA
Part Description :ANTENNA AN2400-5701RS,109mm/50Ω/2dBi/SMA BLACK IST,Exem		

**Contents or Instructions :**

Detailed Specification is shown as attachment.

中磊電子股份有限公司  
Mar 25 2008  
 文件管制中心發行章

\*任何變更須事前經協調並承認後始可變更.Any change must be negotiated in advance, and execute the revision after SerComm's Approval.

Disposition	Countersign	In Charge (Name/Date)	Checked By (Name/Date)
<b>Final Approval :</b> <input checked="" type="checkbox"/> electrical <input checked="" type="checkbox"/> dimensional <input checked="" type="checkbox"/> visual <input checked="" type="checkbox"/> function	✓	Component	Allen Wu 03/25/2008
<b>Conditional Approval :</b> <input type="checkbox"/> electrical <input type="checkbox"/> dimensional <input type="checkbox"/> visual <input type="checkbox"/> function		PM	
<b>Temporary Approval :</b> <input type="checkbox"/> electrical <input type="checkbox"/> dimensional <input type="checkbox"/> visual <input type="checkbox"/> function		EMI	
<b>Attachments :</b> <input type="checkbox"/> sample <input checked="" type="checkbox"/> specification <input type="checkbox"/> drawing <input type="checkbox"/> other	✓	H/W EE	Dina Huang 03/25/2008
<b>Final disposition :</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Conditional Approved : For purchasing to by _____ pcs, for pilot production test. <input type="checkbox"/> Temporary approved : Vendor is requested to supply samples again before _____ (mm)/_____ (dd)/_____ (yy)		Mechanical	Ken Hsu 03/25/2008
		PE	
	Change History ( 變更記錄 )		
	REV	Related Document ( 相關文件 )	FILE No. ( 編號 )

DISTRIBUTION : CHUNAN SERNET VENDOR R/D

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# 產品規格承認書

## Specification For Approval

日期： 2008 / 03 / 18

Date

編號： 080318001

File No.

版本： 1.0

Revision

承認廠商： 中磊電子股份有限公司

Manufacturer

製造廠商： 英碩科技股份有限公司

Manufacturer

型號品名： 2.4 GHz External Antenna

Part Number

Description

**INVAX P/N: AN2400-5701RS**

客戶料號： 6172018CIV

廠商審核：

Approved By

### **Invax**

英碩科技股份有限公司

台北市忠孝東路五段 815 號 4 樓

Tel: 886-2-2788-5218 Fax: 886-2-2783-1658

### **Cortec**

東莞康捷電子有限公司

廣東省東莞市長安鎮振安路

沙頭段咸西工業區

Tel: 86-769-85388261 Fax: 86-769-85397133

Product Number: AN2400-5701RS

Product Name: 2.4 GHz Antenna



**Index:**

- 1. Reliability Testing**
- 2. Specification**
- 3. S Parameter Test Data**
- 4. Antenna Radiation Pattern**
- 5. Mechanical Drawing**
- 6. MSDS & SGS Report**

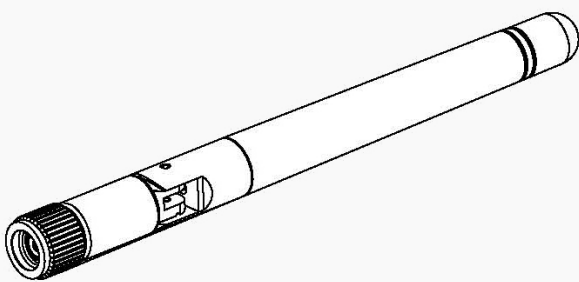
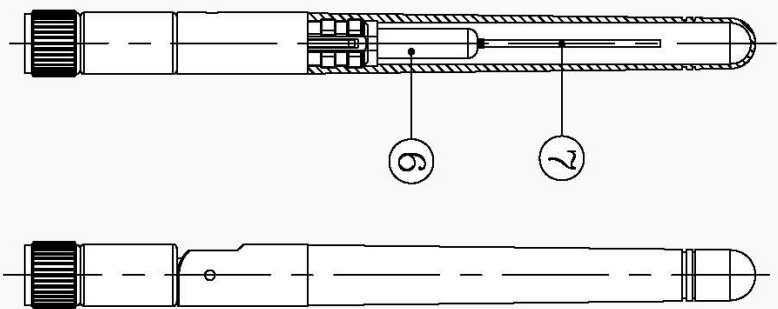
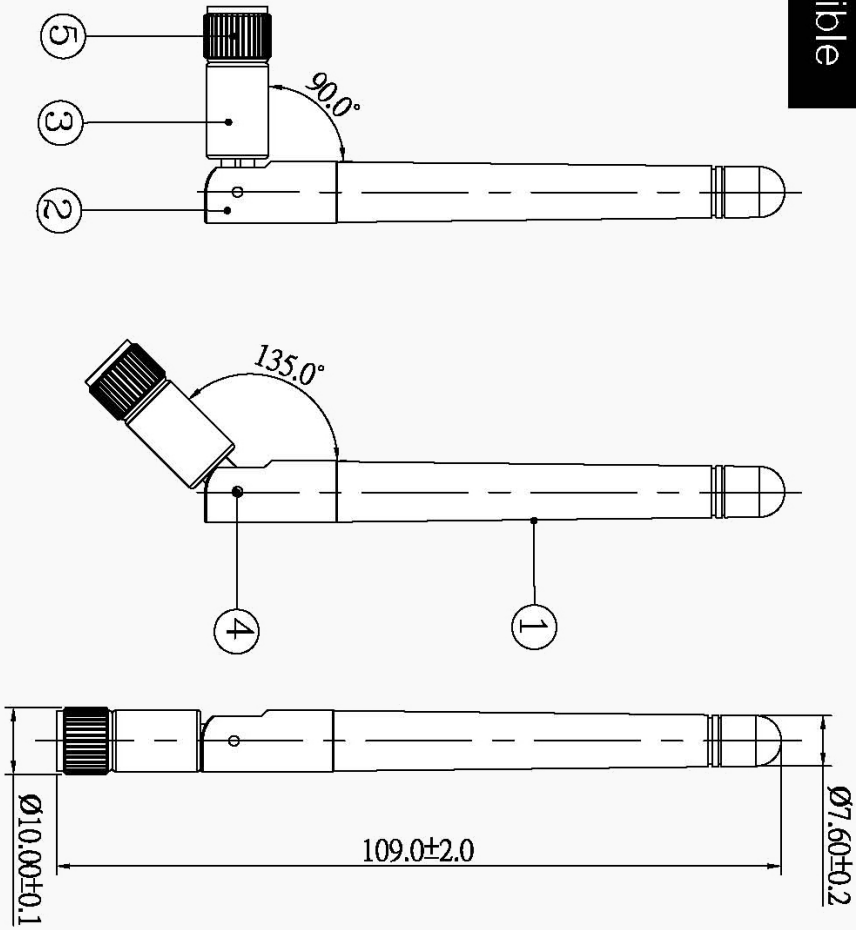
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**1. Reliability Testing**

<b>Test Item</b>	<b>Procedure</b>	<b>Requirement</b>
<b>1. Visual inspection and Dimension Check</b>	Applicable methods using x5 magnification	follow specification
<b>2. Rapid Changing of Temperature</b>	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
<b>3. Damp Heat</b>	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
<b>4. Endurance</b>	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

# RoHS

Compatible



SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

NO.	Part Number	Name	Material	Finished	Qty
7	R-RG-178U	Coaxial Cable	RG178	L=85.00mm	1
6	R-ANA424517S	Copper Tube	Cu	Ø4.40*24.5mm	1
5	R-SMA280-ZC8MFRANT	SMA Male Reverse	Zn Alloy	Electrodeposition	1
4	R-AND1-1219Z	Rivet	Cu	Black Zn Plated	2
3	R-ANS7-01	Base	PA-6	Black	1
2	R-ANS7-02	Hinge	PA-6	Black	1
1	R-ANS7-03	Body	TPE	Black	1

**Cortec**® Cortec Technology Inc.

PART NAME: 2.4GHz Antenna-2dBi | TITLE: 2.4GHz Antenna-2dBi

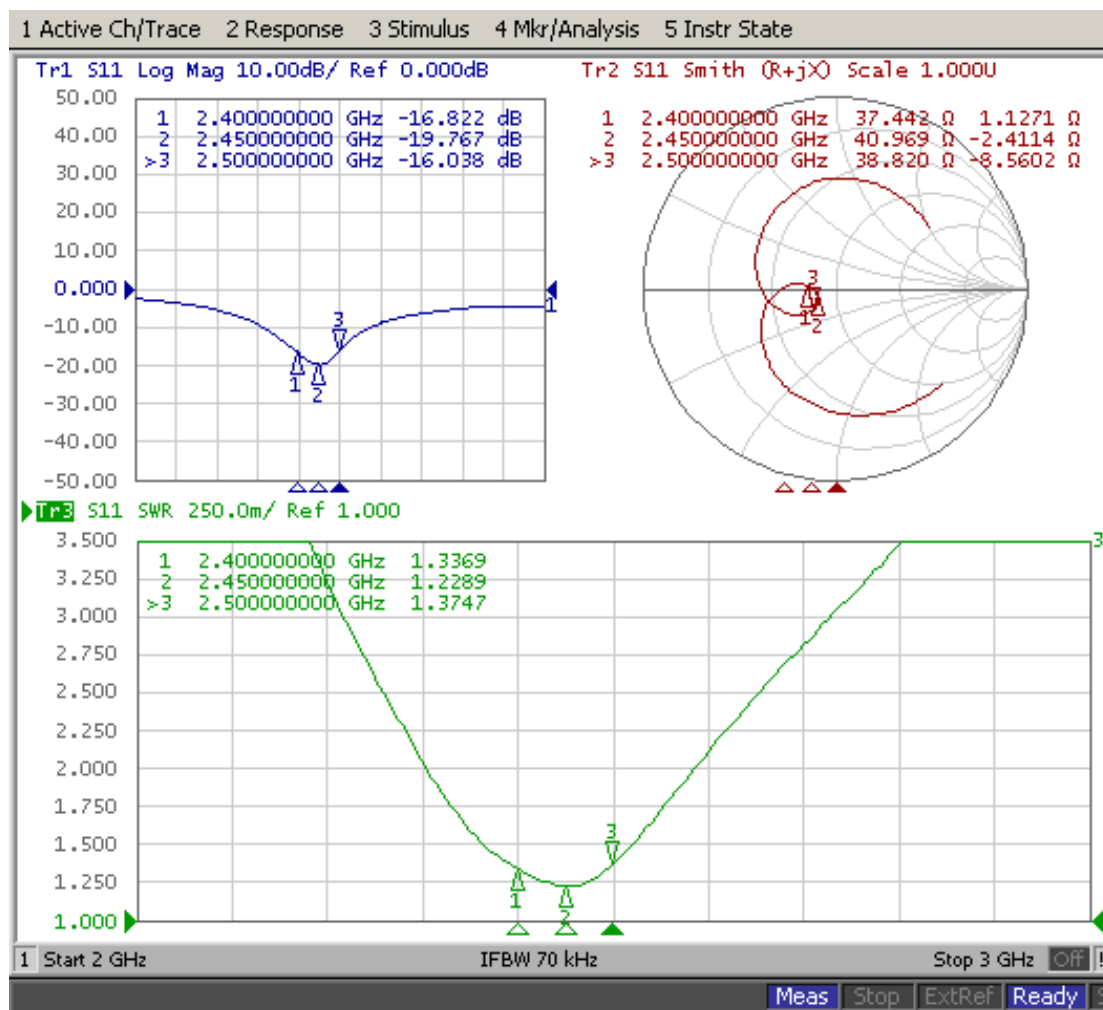
PART NO.: AN2400-5701RS | DWG NAME: AN2400-5701RS.dwg

APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm	Tolerance
Grant 2007/01/05	Liukui 2007/01/05	Seagold 2007/01/18	SCALE: 1/1	XX ±0.5 XXX ±0.1 X° ±1°
			REVISION: 8	

## 2. Specification

A. Electrical Characteristics	
S.W.R.	$\leq 2.0$ @ 2400 - 2500 MHz
Antenna Gain	$2 \pm 0.7$ dBi
Radiation Pattern	360 Degree / Omni-Directional
Impedance	50 Ohm
B. Material	
Material of Plastic	PA + ABS
Material of Metal	Cu
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

## 3. S Parameter Test Data



Product Number: AN2400-5701RS  
Product Name: 2.4 GHz Antenna



#### 4. Antenna Radiation Pattern

##### Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

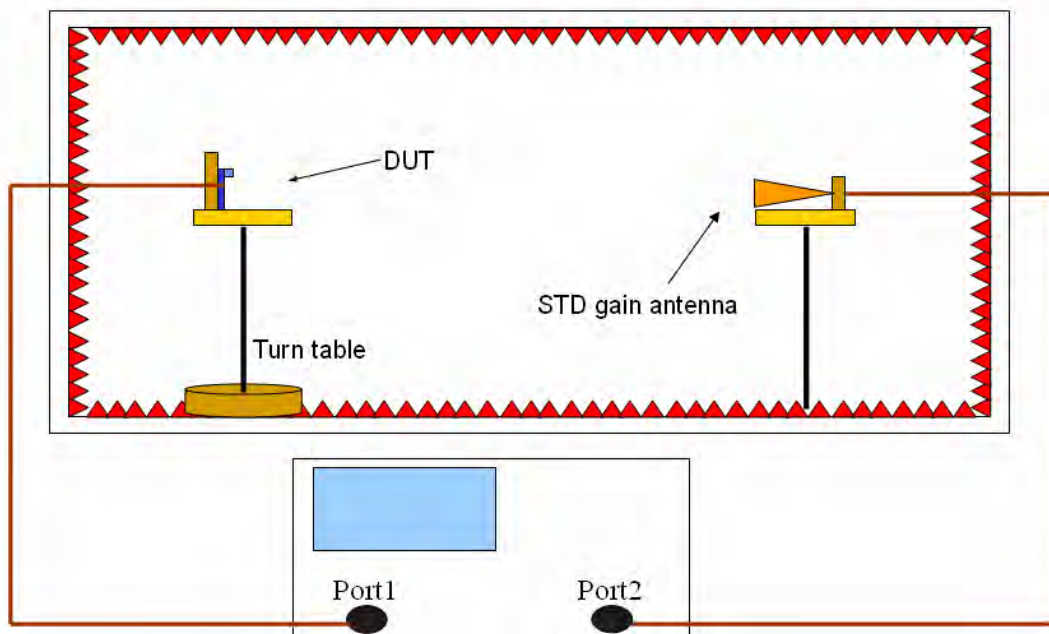
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



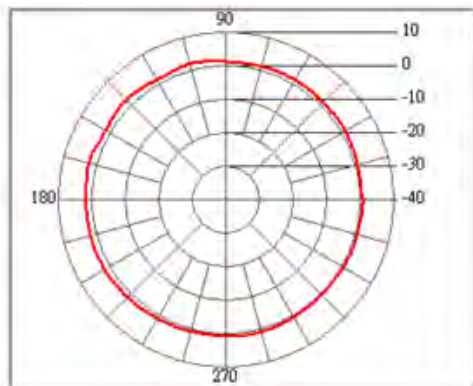
#### 5. Mechanical Drawing

#### 6. MSDS & SGS Report

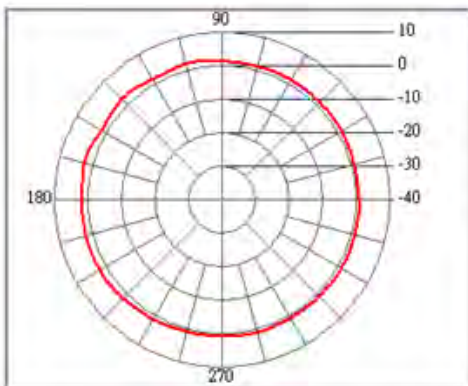
Model : 2.4GHz Antenna // Cortec  
 Remark : H-plane // Vertical Polazation  
 Tested by : CORTEC Antenna 3D Lab // Zhang Bing Xiang

Location: **Chamber**      Date: **2007/11/22**      Time: **上午 11:24:23**  
 Temperatur (°C): **22.00**      Humidity (%): **55.00**      Approved by:

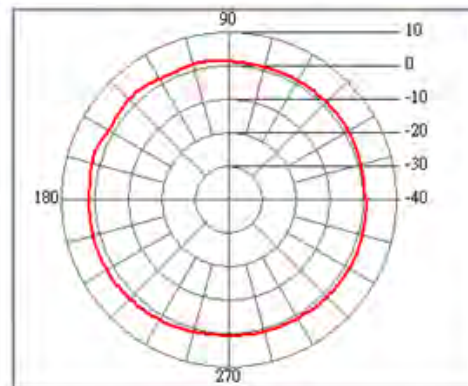
Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	2.23	2.4	2.39	2.28	2.48	2.1	2.24	2.19	1.77	2.01	1.98	1.61
Peak Degree	166	160	160	160	159	123	123	123	148	147	147	147
AV Gain (dBi)	1.18	1.4	1.37	1.33	1.62	1.25	1.36	1.37	0.95	0.96	0.72	0.28



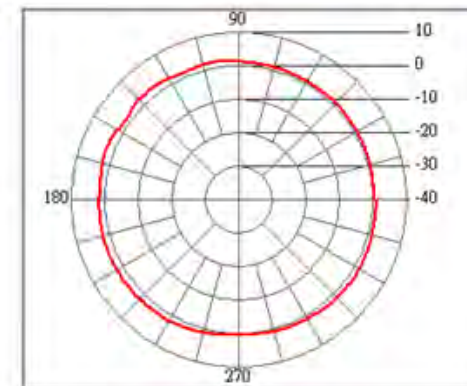
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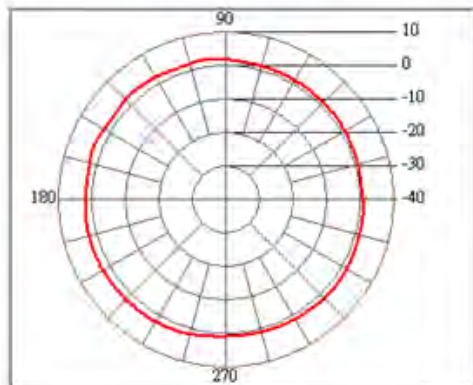
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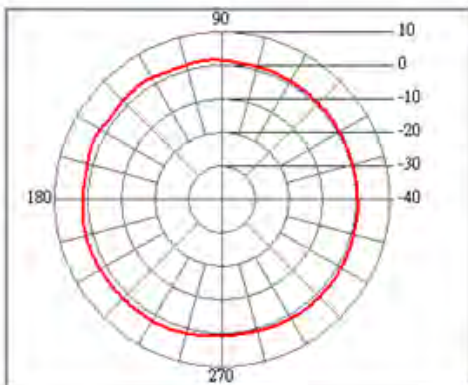
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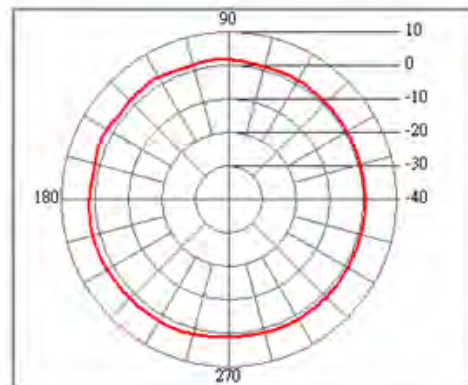
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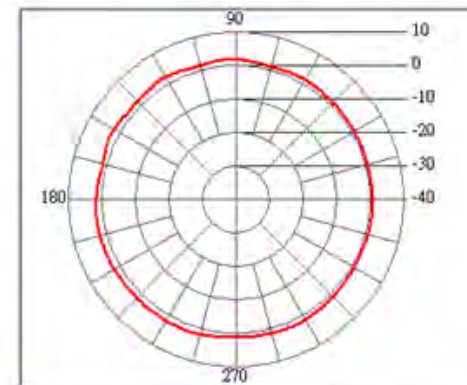
2430



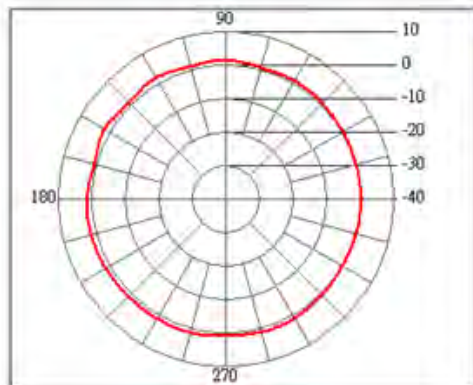
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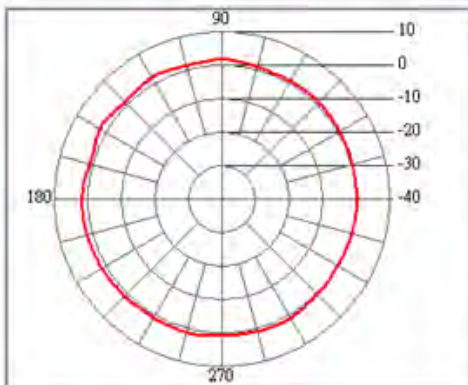
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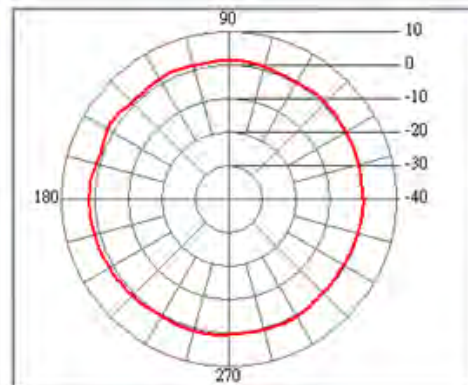
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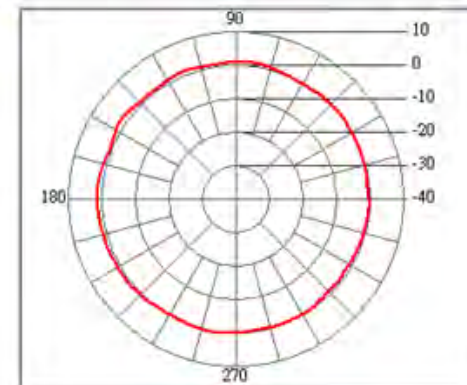
2470



2480



2490



2500

## TPE Datasheet

物性項目 Property	單位 Unit	ASTM 試驗法 Test Method	TPE
比重 Specific Gravity	---	D792	0.88
模具收縮率 Shrinkage	%	D955	0.8-2.5
斷裂拉伸強度 Tensile Strength	Kg/ cm <sup>3</sup>	D638	3.1
扭曲強度 Flexural Strength	Kg/ cm <sup>3</sup>	D790	---
衝擊強度缺口 23°C Impact Strength	Kg om/om	D256	---
硬度 Hardness	A Shore	---	13
熱變形溫度 0.45 MPa Heat Deflection Temp.	°C	D648	80
熔融指數 Melt Flow Index	G/ min <sup>2</sup>	D1238	10
燃燒性 Flammability	---	UL94	HB
<p><b>Testing Data from</b></p> <p>東莞市合春塑料有限公司 Tel:86-0769-2774772</p> <p>台灣大雅國際股份有限公司 Tel:886-02-27775232</p>			

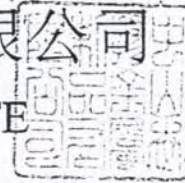


SHIYANG (ZHONG SHAN) METAL PRODUCTS CO.,LTD

世扬金属制品有限公司

TEST CERTIFICATE

材质证明书



CLIENT 客户	天诚							certificate NO. 证明书号	070127-15	
name article 品名	Brass									
LOT NO.	SIZE(MM)	OUTW GT	DESIGNATION	Cu(%)	Pb(%)	Fe(%)	Fe+Sn(%)	Cd(%)	Zn(%)	REMARK
	STANDARD	(KG)	JISC3604	57~61	1.8~3.7	≤0.5	≤1.2	≤0.0075	REM	
7916	14.5 φ		JISC3604	58.92	2.986	0.446	0.971	0.0042	REM	
兹证明本表所列产品,均依材料规格制造及试验,并符合规格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED JERE IN MAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.										

MANAGER: 曾敦義

PABLE: 李玉奎

DATE:2007/02/27

THE THREE INDUSTRIAL AREA NAN LANG TOWN ZHONG SHAN CITY  
中国广东省中山市南朗镇第三工业区

TEL:0760-5214770 FAX:0760-5214769  
E-Mail:sales@shiyangmetal.com

## Zn-Alloy

# 禧福工業股份有限公司 材質分析報告

### 化學成份 Chemical Composition

元素	Element	國際標準	ASTMB240
鋁	(Al)		3.804%
鎂	(Mg)		0.0327%
銅	(Cu)		0.384%
鐵	(Fe)		0.0015%
鉛	(Pb)		0.0091%
錫	(Sn)		0.0017%
鎘	(Cd)		0.0010%
錳	(Mn)		0.00071%
鎳	(Ni)		0.0057%
硒	(Si)		0.0056%
鉻	(Cr)		0.0011%
鉍	(Bi)		0.00040%
鋅	(Zn)		95.8%
<b>物理性能 Physical Properties</b>			
密度	Density(g/cm <sup>3</sup> @21°C)		6.60
溶點範圍	Melting Range		381-387°C
凝固收縮	Solidification Shrinkage		1.17%
熱膨脹率	Thermal Expansion(m/mm/°C @20-100°C)		274
比熱	Specific Heat Capacity(J/kg/°C @20-100°C)		418.7
導熱率	Thermal Conductivity(W/m <sup>2</sup> /br/m/°C @70-140°C)		1130
導電率	Electrical Conductivity(%IACS)		2.0*E7
電阻率	Electrical Resistivity (μohm-cm@20°C)		6.3694
<b>機械性能 Mechanical Properties</b>			
極限抗拉強度	Ultimate Tensile Strength		283MPa
延伸率	Elongation(% in 51mm)		10%
硬度	Hardness(Brinell 500 kg)		82
抗剪強度	Sheet Strength		214 MPa
抗壓屈服強度	Compressive Yield Strength		414 MPa
抗衝擊強度	Impact Energy(Un-notched Bar 6.35*6.35mm)		58
疲勞強度	Fatigue Strength(5*10 <sup>8</sup> Cycles)		48 MPa

## Coaxial Cable Datasheet

<b>RG-178 Coaxial Cable Specification</b>		
<b>1. Cable Type</b>	MIL – C – 17 / RG-178	
<b>2. Impedance</b>	50 ± 3 ohm	
<b>3. Inner Conductor</b>	<b>Material</b>	silver-coated copper
	<b>Conductor Numbers</b>	7
	<b>Conductor Size</b>	0.102 mm
	<b>Outer Diameter</b>	0.3 mm
<b>4. Dielectric Layer</b>	<b>Material</b>	FEP
	<b>Color</b>	Clear
	<b>Average Thickness</b>	0.28 mm
	<b>Diameter</b>	0.86 mm
<b>5. Braid (Shielding)</b>	<b>Material</b>	silver-coated copper
	<b>Construction</b>	16-3-0.1 mm
	<b>Coverage</b>	95 %
<b>6. Outer Cover</b>	<b>Material</b>	FEP
	<b>Color</b>	Brown
	<b>Average Thickness</b>	0.25 mm
	<b>Diameter</b>	1.80 ± 0.05 mm
<b>7. V.S.W.R Testing</b>	< 1.3 (DC ~ 6.0 GHz)	
<b>8. Attenuation (dB / 100 meter )</b>	<b>100 MHz</b>	46
	<b>900 MHz</b>	155
	<b>1800 MHz</b>	295
	<b>2400 MHz</b>	340
	<b>5200 MHz</b>	505
	<b>6000 MHz</b>	550
<b>9. Capacitance</b>	97 ± 3 ( pF / meter)	
<b>10. Maximum Power</b>	30 dBm	
<b>11. Spark Test</b>	2.0 KV	
<b>12. Rating Temp. and Volt.</b>	200°C / 30V	
<b>13. Conductor Resistance</b>	335 ohm / KM / 20°C max.	
<b>14. Dielectric Resistance</b>	3 G ohm / KM / 20°C min.	

SGS 台灣網站 → [http://twap.sgs.com/sgsrsts/chn/cheres\\_tw.asp](http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp)

SGS 大陸網站 → [http://rsts.cn.sgs.com/chn/cheres\\_cn.asp](http://rsts.cn.sgs.com/chn/cheres_cn.asp)

SGS 韓國網站 → [http://rohs.kr.sgs.com/sgsrsts/en/cheres\\_en.asp](http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp)

請輸入以下報告正確資料及檢查碼以便查核

1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)



### 物料中RoHS對象物質含量調查表

康捷電子有限公司	
填表：	張恆雪
部門：	研發部
職務：	文員

物料名稱：AN2400-5701RS

序號	物料型號	物料各構成名稱	各構成物 料的材質	測試報告裡RoHS對應物質測試結果						檢測報告編號	測試日期	測試名稱	測試機構 名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs				
1	R-AN57-03	塑膠本體	TPE本色	N.D.	5	N.D.	N.D.	N.D.	N.D.	GZ0710157632/CHEM	2007/10/26	TPEE	大陸SGS
			黑色色粉	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	KA/2007/71333R1	2007.07.26	PIGMENT	台北SGS
2	R-AN57-02 R-AN57-01	連接筒 連接頭	PA+ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CE/2007/B2671A	2007/11/21	PA+ABS ALLOY	台北SGS
3	R-AN01-1213Z	定位柱	CU	27	29017	N.D.	Negative			CANEC0800023303	2008/1/23	JisC3604BD COPPER	大陸SGS
4	R-SMA260-ZC8MRANT	SMA公頭母針	鋅合金	N.D.	22	N.D.	Negative	N.D.	N.D.	GZ0801011783/CHEM	2008/2/17	鋅合金鍍Zn-3#	大陸SGS
5	R-AN4424517S	銅管	銅	11	4	N.D.	Negative			SZTYR070410642/LP	2007.04.12	黃銅管	大陸SGS
6	R-RG-178U	線材	RG178	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	SH7082518/CHEM	2007/8/1	COAXIAL CABLE	大陸SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量

包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm



Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	5	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
<b>Sum of PBBs</b>		<b>N.D.</b>	<b>-</b>
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
<b>Sum of PBDEs</b>	(5)	<b>N.D.</b>	<b>-</b>
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

**Test Part Description:**

No.1 White plastic grains

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (&lt; MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated

This Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or available on request and accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

Sample photo :



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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To: 耀's

SGS

做 色粉

# Test Report

No.: KA/2007/7133SR1 Date: 2007/07/26 Page: 1 of 4

KAELIN COLOR CO., LTD.  
NO. 24, ALLEY 5, LANE 1 TA HER, SHI TWEN DISTRICT, TAICHUNG CITY, TAIWAN,  
R.O.C.

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description	: PIGMENT
Style/Item No.	: RED 17 WHITE 801 WHITE 8127 ALUMINIUM M7809 YELLOW 38 WHITE 802 WHITE 8128 ALUMINIUM 7903 YELLOW 3A WHITE 803 WHITE 84 ALUMINIUM 7905 YELLOW 3017 WHITE 804 WHITE 72 BROWN 9001 YELLOW 3057 WHITE 823 PERAL 8805 BROWN 9002 YELLOW 3T5 WHITE 828 PERAL 8825 BROWN 97 ORANGE 27 WHITE 836 PERAL 8836 BLUE 5001 WHITE 67 PERAL 8865 BLUE 58 WHITE 80 PERAL 8865 BLUE 5016 WHITE 89 PERAL 39265 BLUE 5021 WHITE 812 PERAL 39275 BLUE 5028 WHITE 814 PERAL 8N001 BLUE 5031 WHITE 8122 WHITE 9500 WHITE 8789 ALUMINIUM 7907
Color	: VIRIDESCENT
Sample Receiving Date	: 2007/07/16
Testing Period	: 2007/07/16 TO 2007/7/23

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :

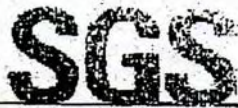
- (1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to IEC 62321, Ed. 1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

Test Result(s) : Please refer to next page(s).

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TW 5325113





# Test Report

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KAE LIN COLOR CO., LTD.

NO. 24, ALLEY 5, LANE 1 TA HER, SHI TWEN DISTRICT, TAICHUNG CITY, TAIWAN, R.O.C

TAICHUNG CITY, TAIWAN, R.O.C

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs		n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

### TEST PART DESCRIPTION:

NO.1

: PIGMENT

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# Test Report

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KABELIN COLOR CO., LTD.

NO. 24, ALLEY 5, LANE 1 TA HER, SHI TWEN DISTRICT, TAICHUNG CITY, TAIWAN.  
R.O.C.

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. According to 2005/717/EC DecaBDE is exempt.
  5. "-" = Not Regulated
  6. This test report replaces the original one KA/2007/71333.  
The original test report KA/2007/71333 was invalid.

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Form of J02 01-9

# SGS

## Test Report

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DELIN COLOR CO., LTD.

NO. 24, ALLEY 6, LANE 1 TA HER, SHI TWEN DISTRICT, TAICHUNG CITY, TAIWAN.

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~ End of Report ~

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