

規格承認書  
Approval Sheet

客戶名稱

Customer Name: Pegatron

產品名稱

Product description: WAP571E 2.4G-1 PIFA ANT

產品型號

Model Name: WAP571E

泓淋料號

Hong Lin P/N: 290-30275

客戶料號

Customer P/N: \_\_\_\_\_

版別 日期  
Version: X7 Date: 2015/10/08

客戶承認簽印 CUSTOMER APPROVED BY	供應商承認簽印 VENDER APPROVED BY
Checked By:	Checked By:
Approval By:	Approval By:

工廠/Factory:

- 1) 深圳市寶安區松崗鎮沙浦圍村第二工業區六棟; 電話+86-755-27090678; 電子信箱:  
yhh@honglintech.com  
Building 6.No.2 Industrial Park, Shapuwei, Songgang Town, Baoan District,Shenzhen,  
Guangdong, China; Tel:+86-755-27090678 ; E-mail:yhh@honglintech.com
- 2) 江蘇省常熟市高新技術產業園柳州路8號; 電話: +86-512-51538298; 電子信箱:  
jtk@honglincable.com  
No.8 Liuzhou Road, Yushan Industrial Park, Hi-tech Development Zone, Changshu,  
Jiangsu, China  
Tel : +86-512-51538298; E-mail : jtk@honglincable.com

## Content

<u>Item</u>	<u>Page</u>
1. Specification (規格表).....	1
2. Antenna Picture.....	2
3. Test data (測試資料).....	3
3.1 Return loss.....	3
3.2 Radiation Pattern.....	3
3.3 Gain Table.....	4
4. Antenna assembly (成品圖).....	5
5. AVL2 證書.....	6
6. ZPFW1 UL 認證.....	8

## 1 Specification

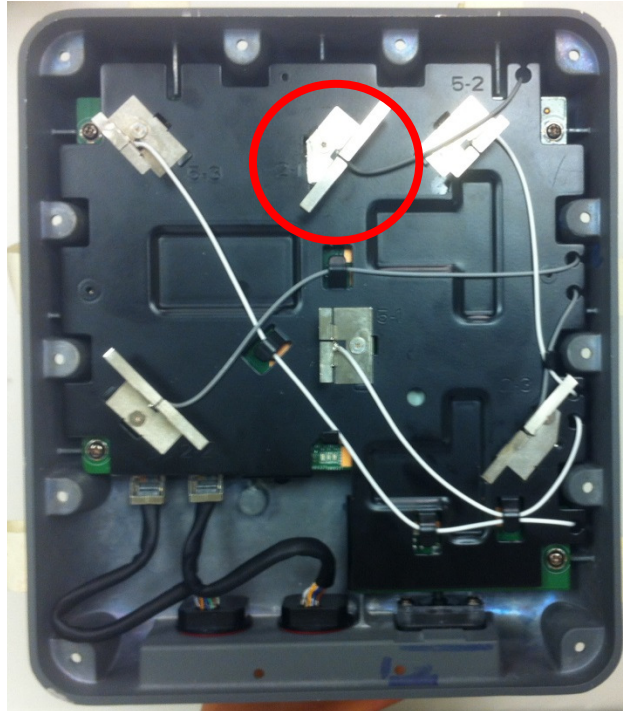
### 1.1 Electrical Properties

- 1.1.1 Frequency Range----- 2.4G~2.5G
- 1.1.2 Impedance----- 50Ω
- 1.1.3 VSWR----- 1.92:1
- 1.1.4 Return Loss----- -10dB or Less
- 1.1.5 Peak Gain----- 2.65 dBi
- 1.1.6 Admitted Power----- 1W
- 1.1.7 Cable----- Ø1.37 Low Loss
- 1.1.8 Antenna Type----- Metal Type

### 1.2 Physical Properties

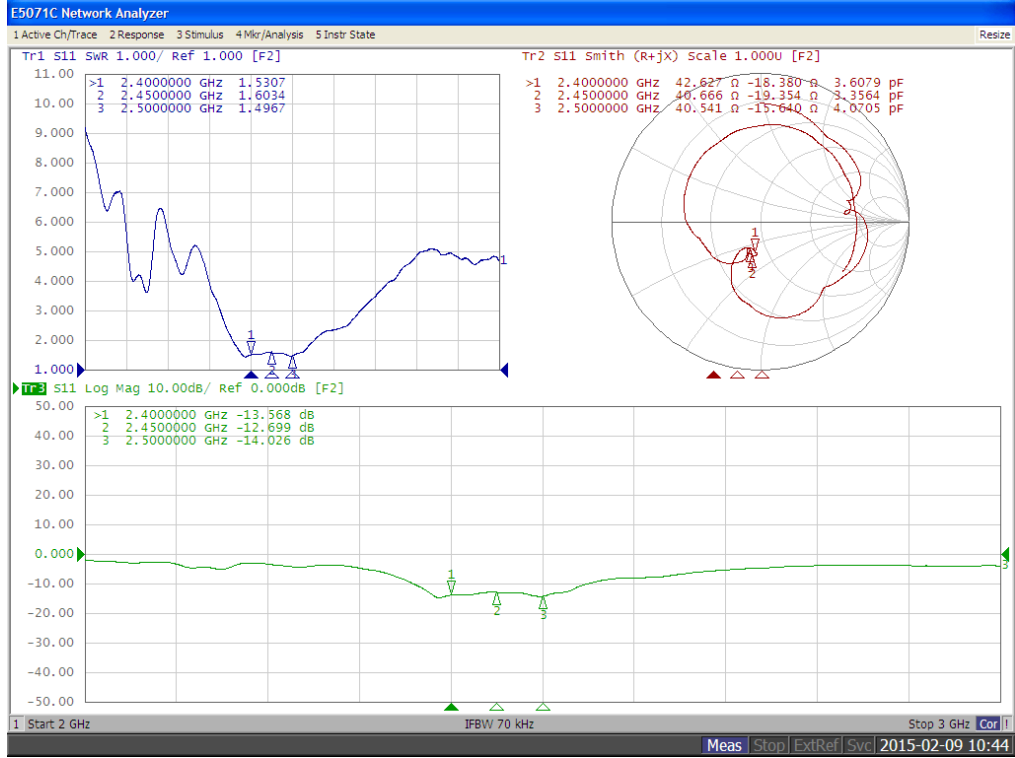
- 1.2.1 Antenna Body----- SUS430 預鍍鎳

## 2 Antenna Picture



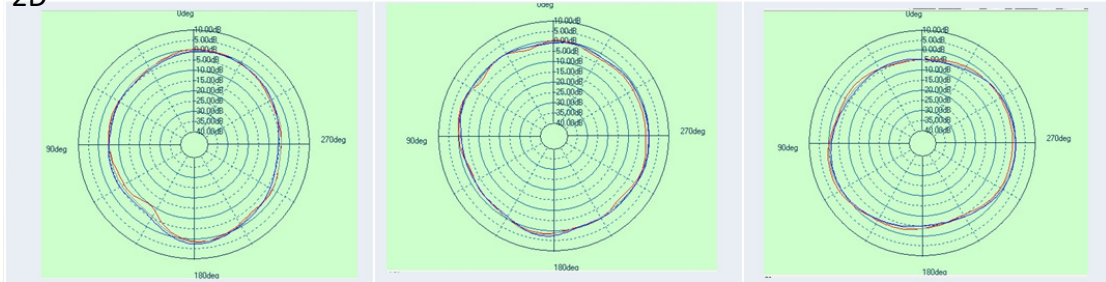
### 3 Test data

#### 3.1 Return Loss and VSWR

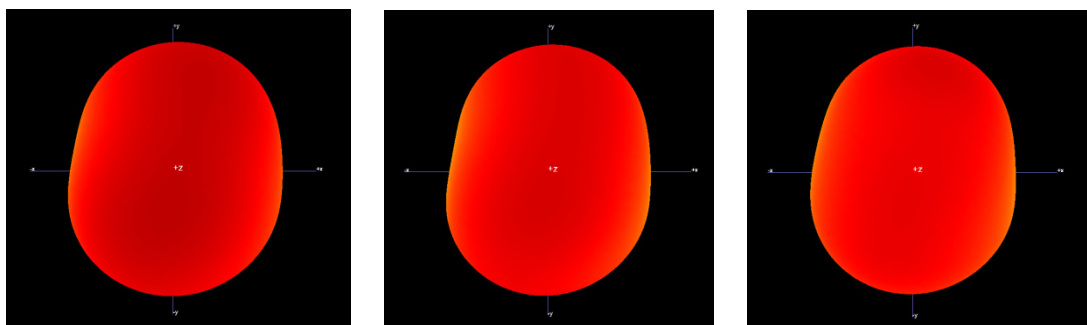


#### 3.2 Radiation Pattern

2D



3D



2400 MHz

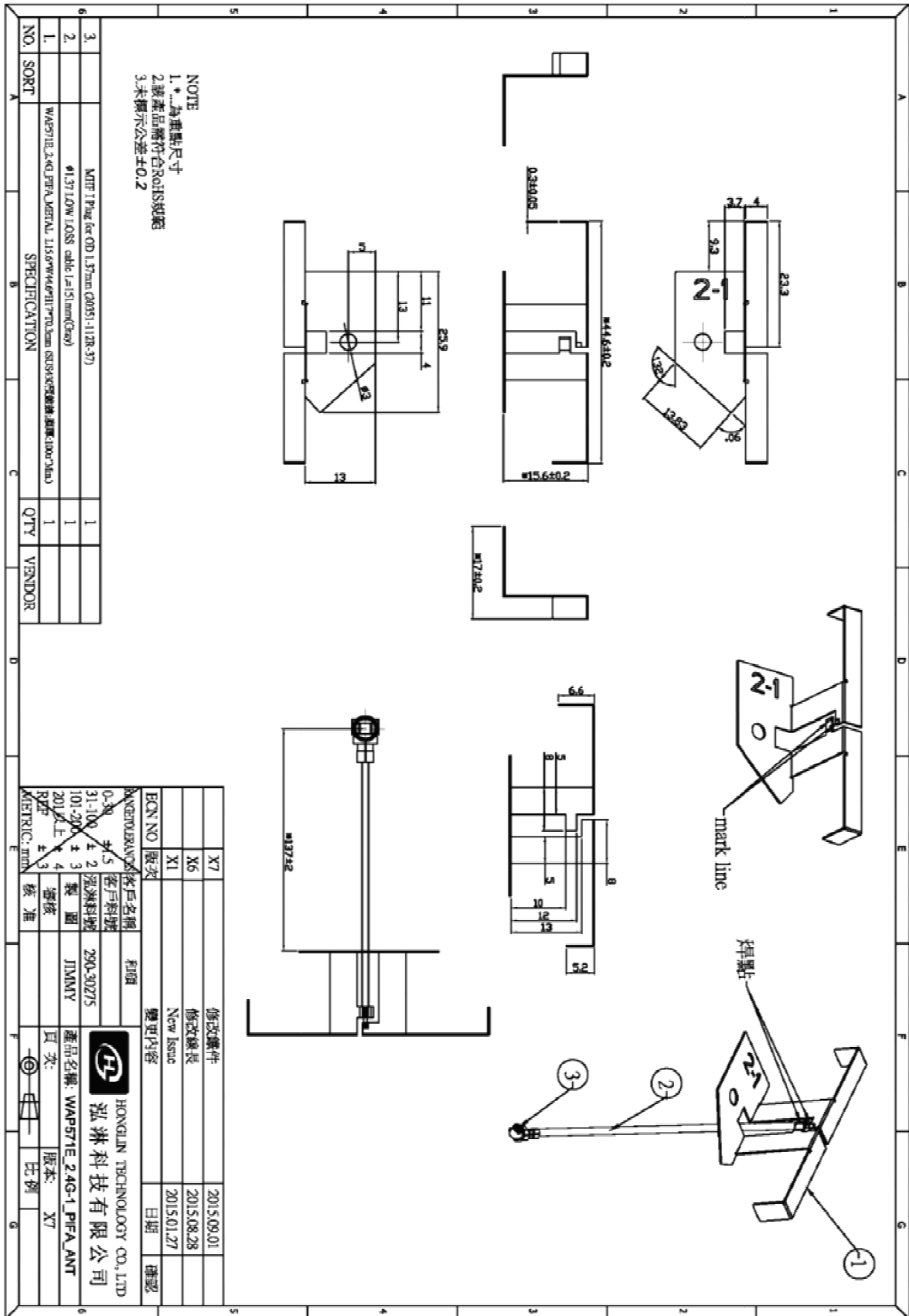
2450 MHz

2500 MHz

### 3.3 Gain Table

Frequency (MHz)	XZ Plane		YZ Plane		XY Plane		Peak Gain (dBi)	Efficiency (%)
	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)		
2400	1.15	-2.94	1.42	-0.75	1.39	-2.31	1.76	66
2450	1.65	-2.77	2.01	-0.52	0.81	-2.25	2.30	65
2500	2.31	-2.31	2.34	-0.5	0.44	-2.64	2.65	67

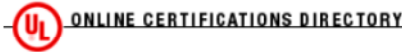
#### 4 Antenna Assembly (成品圖)



## 5 AVLV2 證書

AVLV2.E239426 - Appliance Wiring Material - Component

Page 1 of 2



### AVLV2.E239426 Appliance Wiring Material - Component

[Page Bottom](#)

### Appliance Wiring Material - Component

[See General Information for Appliance Wiring Material - Component](#)

**WEIHAI HONG LIN ELECTRONIC CO LTD**  
 STUDENTS PIONEERING GARDEN  
 PUDONG RD, 9 INTERNATIONAL  
 WEIHAI E&T  
 WEIHAI, SHANDONG 264205 CHINA

E239426

Table of Recognized Styles							
<b>Single-conductor, thermoplastic insulation.</b>							
<a href="#">1004</a>	<a href="#">1195</a>	<a href="#">1375</a>	<a href="#">1580</a>	<a href="#">1803</a>	<a href="#">10098</a>	<a href="#">10536</a>	<a href="#">10993</a>
<a href="#">1005</a>	<a href="#">1208</a>	<a href="#">1429</a>	<a href="#">1617</a>	<a href="#">1821</a>	<a href="#">10131</a>	<a href="#">10588</a>	<a href="#">11004</a>
<a href="#">1006</a>	<a href="#">1283</a>	<a href="#">1430</a>	<a href="#">1618</a>	<a href="#">1855</a>	<a href="#">10140</a>	<a href="#">10602</a>	<a href="#">11005</a>
<a href="#">1007</a>	<a href="#">1315</a>	<a href="#">1431</a>	<a href="#">1624</a>	<a href="#">1870</a>	<a href="#">10150</a>	<a href="#">10603</a>	<a href="#">11006</a>
<a href="#">1010</a>	<a href="#">1316</a>	<a href="#">1452</a>	<a href="#">1672</a>	<a href="#">1872</a>	<a href="#">10168</a>	<a href="#">10800</a>	<a href="#">11007</a>
<a href="#">1015</a>	<a href="#">1317</a>	<a href="#">1453</a>	<a href="#">1679</a>	<a href="#">1895</a>	<a href="#">10198</a>	<a href="#">10846</a>	<a href="#">11026</a>
<a href="#">1016</a>	<a href="#">1318</a>	<a href="#">1478</a>	<a href="#">1691</a>	<a href="#">1966</a>	<a href="#">10235</a>	<a href="#">10856</a>	<a href="#">11027</a>
<a href="#">1028</a>	<a href="#">1319</a>	<a href="#">1497</a>	<a href="#">1728</a>	<a href="#">1984</a>	<a href="#">10236</a>	<a href="#">10981</a>	<a href="#">11028</a>
<a href="#">1032</a>	<a href="#">1320</a>	<a href="#">1500</a>	<a href="#">1729</a>	<a href="#">10012</a>	<a href="#">10237</a>	<a href="#">10982</a>	<a href="#">11212</a>
<a href="#">1061</a>	<a href="#">1321</a>	<a href="#">1509</a>	<a href="#">1741</a>	<a href="#">10027</a>	<a href="#">10272</a>	<a href="#">10983</a>	<a href="#">11252</a>
<a href="#">1095</a>	<a href="#">1330</a>	<a href="#">1533</a>	<a href="#">1747</a>	<a href="#">10053</a>	<a href="#">10337</a>	<a href="#">10984</a>	<a href="#">11353</a>
<a href="#">1102</a>	<a href="#">1332</a>	<a href="#">1568</a>	<a href="#">1774</a>	<a href="#">10059</a>	<a href="#">10368</a>	<a href="#">10985</a>	<a href="#">11364</a>
<a href="#">1107</a>	<a href="#">1333</a>	<a href="#">1569</a>	<a href="#">1777</a>	<a href="#">10064</a>	<a href="#">10369</a>	<a href="#">10986</a>	
<a href="#">1180</a>	<a href="#">1354</a>	<a href="#">1571</a>	<a href="#">1789</a>	<a href="#">10086</a>	<a href="#">10495</a>	<a href="#">10987</a>	
<a href="#">1185</a>	<a href="#">1365</a>	<a href="#">1581</a>	<a href="#">1792</a>	<a href="#">10097</a>	<a href="#">10533</a>	<a href="#">10992</a>	
<b>Multiple-conductor, thermoplastic insulation.</b>							
<a href="#">2092</a>	<a href="#">2576</a>	<a href="#">2919</a>	<a href="#">20346</a>	<a href="#">20798</a>	<a href="#">21088</a>	<a href="#">21301</a>	<a href="#">21468</a>
<a href="#">2095</a>	<a href="#">2587</a>	<a href="#">2935</a>	<a href="#">20379</a>	<a href="#">20820</a>	<a href="#">21099</a>	<a href="#">21306</a>	<a href="#">21469</a>
<a href="#">2096</a>	<a href="#">2625</a>	<a href="#">2960</a>	<a href="#">20410</a>	<a href="#">20844</a>	<a href="#">21100</a>	<a href="#">21307</a>	<a href="#">21492</a>
<a href="#">2097</a>	<a href="#">2651</a>	<a href="#">2969</a>	<a href="#">20445</a>	<a href="#">20861</a>	<a href="#">21101</a>	<a href="#">21309</a>	<a href="#">21503</a>
<a href="#">2098</a>	<a href="#">2678</a>	<a href="#">2990</a>	<a href="#">20475</a>	<a href="#">20866</a>	<a href="#">21104</a>	<a href="#">21310</a>	<a href="#">21515</a>
<a href="#">2344</a>	<a href="#">2725</a>	<a href="#">2996</a>	<a href="#">20496</a>	<a href="#">20878</a>	<a href="#">21126</a>	<a href="#">21445</a>	<a href="#">21516</a>
<a href="#">2405</a>	<a href="#">2733</a>	<a href="#">20058</a>	<a href="#">20549</a>	<a href="#">20890</a>	<a href="#">21142</a>	<a href="#">21451</a>	<a href="#">21517</a>
<a href="#">2448</a>	<a href="#">2791</a>	<a href="#">20095</a>	<a href="#">20554</a>	<a href="#">20907</a>	<a href="#">21143</a>	<a href="#">21452</a>	<a href="#">21518</a>
<a href="#">2464</a>	<a href="#">2833</a>	<a href="#">20170</a>	<a href="#">20566</a>	<a href="#">20911</a>	<a href="#">21144</a>	<a href="#">21453</a>	<a href="#">21570</a>
<a href="#">2468</a>	<a href="#">2835</a>	<a href="#">20197</a>	<a href="#">20574</a>	<a href="#">20936</a>	<a href="#">21147</a>	<a href="#">21454</a>	<a href="#">21571</a>
<a href="#">2517</a>	<a href="#">2836</a>	<a href="#">20236</a>	<a href="#">20624</a>	<a href="#">20941</a>	<a href="#">21149</a>	<a href="#">21455</a>	<a href="#">21634</a>
<a href="#">2547</a>	<a href="#">2844</a>	<a href="#">20251</a>	<a href="#">20626</a>	<a href="#">20948</a>	<a href="#">21165</a>	<a href="#">21456</a>	<a href="#">21706</a>
<a href="#">2549</a>	<a href="#">2851</a>	<a href="#">20254</a>	<a href="#">20640</a>	<a href="#">20954</a>	<a href="#">21198</a>	<a href="#">21457</a>	
<a href="#">2552</a>	<a href="#">2854</a>	<a href="#">20276</a>	<a href="#">20642</a>	<a href="#">21002</a>	<a href="#">21213</a>	<a href="#">21458</a>	



<a href="#">2562</a>	<a href="#">2863</a>	<a href="#">20279</a>	<a href="#">20696</a>	<a href="#">21016</a>	<a href="#">21253</a>	<a href="#">21460</a>
<a href="#">2571</a>	<a href="#">2877</a>	<a href="#">20288</a>	<a href="#">20706</a>	<a href="#">21036</a>	<a href="#">21292</a>	<a href="#">21461</a>
<a href="#">2574</a>	<a href="#">2896</a>	<a href="#">20328</a>	<a href="#">20733</a>	<a href="#">21064</a>	<a href="#">21293</a>	<a href="#">21462</a>
<b>Single-conductor, thermoset insulation.</b>						
<a href="#">3173</a>	<a href="#">3265</a>	<a href="#">3271</a>	<a href="#">3302</a>	<a href="#">3363</a>	<a href="#">3385</a>	<a href="#">3481</a>
<a href="#">3237</a>	<a href="#">3266</a>	<a href="#">3275</a>	<a href="#">3348</a>	<a href="#">3376</a>	<a href="#">3386</a>	
<b>Multiple-conductor, thermoset insulation.</b>						
<a href="#">4468</a>	<a href="#">4478</a>	<a href="#">4523</a>	<a href="#">4530</a>			

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.  
[Last Updated](#) on 2014-12-29

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

© 2015 UL LLC

When the UL Leaf Mark is on the product, or when the word "Environment" is included in the UL Mark, please search the [UL Environment database](#) for additional information regarding this product's certification.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2015 UL LLC".

## 6 ZPFW1 UL 認證



the standard in safety

Underwriters  
Laboratories

File E225203

Vol 1

Issued: 2002-02-20

Revised: 2009-05-06

FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

COMPONENT - WIRING HARNESSSES  
(ZPFW2, ZPFW3)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: WEIHAI HONG LIN ELECTRONIC CO LTD  
(342688-001) STUDENTS PIONEERING GARDEN  
FUDONG RD, 9 INTERNATIONAL  
WEIHAI E&T  
WEIHAI,  
SHANDONG 264205 CHINA

Recognized Company: SAME AS APPLICANT  
(342688-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. (UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services 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 representatives of Underwriters Laboratories Inc. and is not to be 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. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc. (UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson  
Senior Vice President  
Global Follow-Up Service Operations

William R. Carney  
Director  
North American Certification Program



File E225283 Vol 1 ADDENDUM TO PAGE 1 ISSUED: 2002-02-20  
AUTHORIZATION PAGE REVISED: 2009-05-06

LOCATION

(100045-973) WUHAN HONGLIN ELECTRONIC CO LTD  
21 HIGH TECH INDUSTRY PARK  
WUHAN E&T DEVELOPMENT ZONE  
WUHAN,  
HUBEI 430056 CHINA

(100125-481) DEZHOU HONGLIN ELECTRONICS CO LTD  
FUMIN RD  
HENGYUAN ECONOMIC DEVELOPMENT ZONE  
LINYI COUNTY  
DEZHOU SHANDONG CHINA

(342688-001) WEIHAI HONG LIN ELECTRONIC CO LTD  
STUDENTS PIONEERING GARDEN  
PUDONG RD, 9 INTERNATIONAL  
WEIHAI E&T  
WEIHAI,  
SHANDONG 264205 CHINA

(767417-001) CHANGSHU HONGLIN ELECTRONIC CO LTD  
#8 LIUZHOU RD  
YUSHAN INDUSTRIAL PARK  
HI-TECH DEVELOPMENT ZONE  
CHANGSHU,  
JIANGSU 215500 CHINA