



PRODUCT SPECIFICATION

(產品規格書)

A1:AUG.16/2011
A2:JUL.01/2014.
A3:JAN.19/2016(P8)
A4:MAR.08/2016 插入/拔出力

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
Centronic Connector (RoHS)	5972+5973+5974+5975 spec	A4(I522)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Sunny Tsai	MAR.08/2016



PRODUCT SPECIFICATION OF OUPIIN

Ordering information

Straight Type

5972-	10	500	A	
Series	10:Male	140: 14 Pin	A: Tray Package	
	20:Female	240: 24 Pin		
	40:Female	360: 36 Pin		
		500: 50 Pin		

5972-K10360A

Right Angle Type

5973-	10	500	A	
Series	10:Male	140: 14 Pin	A: Tray Package	
	20:Female	240: 24 Pin		
	40:Female	360: 36 Pin		
		500: 50 Pin		

Solder Type

5974-	10	500	A	
Series	10:Male	140: 14 Pin	A: Tray Package	
	20:Female	240: 24 Pin		
	30:Male	360: 36 Pin		
	40:Female	500: 50 Pin		
	60:Female			

IDC Type

5975-	10	500	A	A	
Series	10:Male	500: 50 Pin	With Grounding Forks and Jack Screws Attached	A: Tray Package	
			Blank: Standard Type		



PRODUCT SPECIFICATION OF OUPIIN

1. SCOPE (範圍)	4
2. REFERENCE DOCUMENTS (參考文件)	4
3. FEATURE & DIMENSIONS (特徵及尺寸)	4
3.1. PRODUCT DIMENSION (產品尺寸)	4
3.2. PCB/PANEL LAYOUT (印刷電路板佈局)	4
3.3. BILL OF MATERIAL (材料清單)	4
3.4. MECHANICAL & ELECTRICAL CHARACTERISTIC (機械及電器特性)	4
3.5. PACKAGING (包裝)	4
3.6 STORAGE (儲存)	5
4. Environmental (環境要求)	5
4.1. SOLDERABILITY (可焊性)	5
4.2. RESISTANCE TO SOLDER HEAT (耐焊接熱)	5
WAVE SOLDERING (波峰焊)	5
1.Preheat (預熱)	5
2.Soldering (焊接)	5
3.Cool Down (冷卻)	5
5. PERFORMANCE AND TEST DESCRIPTION (性能及測試)	6
5.1. REQUIREMENT (要求)	6
5.2. TEST CONDITION (測試條件)	6
5.3. SAMPLE SELECTION (樣品選擇)	6

Table I: Test Requirements and Procedure	7 - 9
------------------------------------------------	-------

(附錄一： 測試要求)

Table II: Material	10-13
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(附錄二： 材料證明)



PRODUCT SPECIFICATION OF OUPIIN

1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of the Centronic Connector , which is designed and manufactured by Oupiin Electronic Co.,Ltd.

(本產品規格書規定了由歐品電子有限公司生產的 Centronic Connector 型連接器,產品的特性及測試方法.)

2. REFERENCE DOCUMENTS (參考文件)

MIL-STD-1344A	Test method for electrical connector (電子連接器測試方法)
MIL-STD-202F	Test method for electrical components (電子零件測試方法)
EIA 364	Test method for electrical components (電子零件測試方法)

3. FEATURE & DIMENSIONS (特徵及尺寸)

3.1. PRODUCT DIMENSION (產品尺寸)

These connectors shall have the dimensions as shown in drawing.

(本產品的相關尺寸參考圖面.)

3.2. PCB/PANEL LAYOUT (印刷電路板佈局)

The recommended PCB layout is shown in drawing.

(本產品適用的 PCB layout 參考圖面.)

3.3. BILL OF MATERIAL (材料清單)

Harmful material control follow the requirement of RoHS. The bill of material and product number is described in drawing.

(有害物質控制符合RoHS指令要求.本產品使用的材料參考附件.)

3.4. MECHANICAL & ELECTRICAL CHARACTERISTIC (機械及電氣特性)

The connector shall have the mechanical and electrical performance as described in drawing.

(本產品的機械及電氣特性見圖面：)

3.5. PACKAGING (包裝)

Products shall be packaged according to requirements specified in purchase order for safe delivery, connector container and the packaging method are shown in package specification.

(產品可依客戶指定要求包裝，包裝材料與包裝方式參見產品包裝規範。)



PRODUCT SPECIFICATION OF OUPIIN

3.6 STORAGE (儲存)

Temperature: -55°C ~ +105°C

(溫度: -55°C ~ +105°C)

4. ENVIRONMENTAL (環境要求)

4.1. SOLDERABILITY (可焊性)

Connectors meet solder ability to MIL-STD-202. Finish shall be free of contaminants.

(產品可焊性符合 MIL-STD-202 標準規定的相關要求，表面不得有污染物。)

4.2. RESISTANCE TO SOLDER HEAT (耐焊接熱)

WAVE SOLDERING (波峰接)

Three cycles. Each cycle consisting of three consecutive phased.

(三個週期，每個週期包括三個連續的階段完成；)

1. Preheat (預熱)

The steady temperature of the preheat zone is 90~125°C.

(預熱區最終溫度控制在90~125°C)

2. Soldering (焊接)

To avoid the secondary tin-melting, the temperature on PCB upper surface is 160°C Max. for products with lead, or 200°C Max. for lead-free products. The temperature of the PCB bottom surface shall not be exceed 100°C more than the temperature of the PCB upper surface. The peak temperature is during 220~245°C for products with lead, or 235~265°C for lead-free products. The tin dip time is duration for 3~ 5 seconds.

(有鉛產品板面溫度不得超過160°C，無鉛產品板面溫度不得超過200°C，以防止貼片零件二次熔錫。板面溫度與板底的溫度溫差不得超過100°C。板下溫度峰值有鉛產品維持在220~245°C，無鉛產品控制在235~265°C。浸錫時間控制在3~ 5秒。)

3. Cool Down (冷卻)

Cool down shall not exceed 6°C per second.

(冷卻速度不超過6°C/秒。)

Note: (說明)

Device temperature measurements are referenced from the top-center of the package outer surface.

(設備溫度量測時以從頂部中間位置測量為準。)



PRODUCT SPECIFICATION OF OUPIIN

5. PERFORMANCE AND TEST DESCRIPTION

(性能及測試)

5.1. REQUIREMENT (要求)

Product is designed to meet electrical, mechanical, and environmental performance requirements specified in **Table I**.

(本產品設計符合附表一所述的機械，電氣及環境要求。)

5.2. TEST CONDITION (測試條件)

Unless otherwise specified, all tests shall be performed at ambient environmental conditions.

(除非特別注明，所有測試在室溫條件下完成；)

5.3. SAMPLE SELECTION (樣品選擇)

Test samples shall be selected at random from current production. No test samples shall be reused. Samples are pre-conditioned with 5cycles of durability. Each group shall be containing 5 test samples.

(測試樣品從現生產的產品中隨機抽取，所有測試過的樣品不得重複使用。樣品已預先插拔5次，每組測試有5個樣品；)



PRODUCT SPECIFICATION OF OUPIIN

Table I: Test Requirements and Procedures

(附錄一:測試要求)

Items (項目)	Requirements (要求)	Test Methods (檢測方法)
1. Confirmation of Product (產品確認)	Product shall be conforming to the requirements of applicable product drawing. (產品必須滿足相關檔的規定)	Check the dimensions and functions per applicable product drawing in your eyes. (目視，尺寸及功能依產品圖面檢查) EIA-364-18
2. Contact Resistance (接觸阻抗)	30 mΩ Max. initial (最大.初態)	Subject mated contacts assembled in housing to closed circuit of 100 mA max. at open circuit voltage of 20 mV max. (所述固定在外殼裏的端子連結到一個封閉回路中測試：電流 100 mA，電壓 20 mV max.)
3. Insulation Resistance (絕緣阻抗)	1000 MΩ Min. (最小)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. Condition B (500 V DC±10%). (測試產品端子間以及端子與接地間的電阻) (500V DC±10%)
4. Dielectric Strength (耐電壓)	Connector must withstand test potential of 1000 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 1000V AC，時間一分鐘，漏電流不大於 0.5 mA.)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. EIA-364-20 . (測試產品端子間以及端子與接地間的電壓，適用：EIA-364-20)
5. Connector Mated / Unmated Force (產品插拔力)	Mated force : 17.5 Kg max. Unmated force : 1.5 Kg min. 插入力: 17.5 Kg 最大 拔出力: 1.5 Kg 最小	Measure force necessary to unmated between the counterparts connectors.. (軸向力以 25±3mm/分的速度從塑膠本體對插後拔出)
6. Durability (Repeated Mating/Unmated) (耐久性)	Contact Resistance: 60 mΩ Max. after testing. (測試後接觸阻抗最大 60mΩ)	The sample should be mounted the tester and fully mated and unmated 500 cycles specified at the rate of 200±50 cycles/hour (重復進行配合產品 500 次插拔.) EIA-364-09B



PRODUCT SPECIFICATION OF OUPIIN

<p>7. Humidity (恆溫恆濕)</p>	<p>After testing, no damage, Contact Resistance 60 mΩ max.. Dielectric Strength should be OK, Insulation Resistance should be 1000 MΩ min. (測試後,產品無損壞, 接觸阻抗: 60 mΩ 最大; 耐電壓測試 OK, 絕緣阻抗 1000MΩ 最小;)</p>	<p>Temperature : 40±2°C 96 hours. (溫度 : 40±2°C 96 小時) Relative Humidity : 90-95%; (相對濕度 : 90-95% ;) Duration :96 Hours. (時間 : 96 小時) EIA-364-31</p>
<p>8.Low Temperature (低溫)</p>	<p>After testing, no damage, Contact Resistance 60 mΩ max.. (測試後,產品無損壞, 接觸阻抗 : 60 mΩ 最大.)</p>	<p>Subject product to -55±2°C for 96 hours continuously. MIL-STD-1344A, Method 1005.1. (產品置於-55±2°C 連續 96 小時, 適用 MIL-STD-1344A, 方法 1005.1。)</p>
<p>9.High temperature (高溫)</p>	<p>After testing, no damage, Contact Resistance 60 mΩ max.. (測試後,產品無損壞, 接觸阻抗 : 60 mΩ 最大;)</p>	<p>Subject product to 105±2°C for 96 hours continuously. MIL-STD-1344A, Method 1005.1. (產品置於 105±2°C 連續 96 小時. 適用 MIL-STD-1344A, 方法 1005.1。)</p>
<p>10. Thermal shock (熱衝擊)</p>	<p>After testing, no damage, Contact Resistance 60 mΩ max.. (測試後,產品無損壞, 接觸阻抗 : 60 mΩ 最大;)</p>	<p>Temperature range from -25°C to +85°C .Start from -25°C, after 30 min. change to +85°C; change time is no more than 30 seconds. Total 5 cycles. (溫度變化範圍 : -25°C~ +85°C ; 從 -25°C 開始, 30 分鐘後換到+85°C ; 轉換時間不超過 30 秒 ; 共 5 個循環.)EIA-364-32</p>
<p>11. Salt Spray (鹽霧)</p>	<p>After testing, no damage, Contact Resistance 60 mΩ max.. (測試後,產品無損壞, 接觸阻抗 : 60 mΩ 最大)</p>	<p>5±1% salt concentration 48±4 hours 35±2°C MIL-STD-202, Method 101 Condition B. (鹽水濃度 (重量比) 5±1%, 時間 48±4 小時, 溫度 35±2°C ; MIL-STD-202, 方法 101 條件 B.) IEC-364-26A</p>
<p>12. Solder ability (可焊性)</p>	<p>Appearance of the specimen shall be inspected after the test with the assistance of a magnifier capable of giving a magnification of 10 X for any damage such as pinholes, void or rough surface. (樣品在測試完成後, 在放大倍數為 10 倍的顯微鏡下, 檢查外觀損壞如: 小孔, 空焊, 外觀粗糙度;)</p>	<p>Soldering time: 3 to 5 Seconds (焊接時間 : 3~5 秒) Soldering Temperature: 245±5°C. (焊接溫度 : 245±5°C.)</p>
<p>13.Resistance to Wave Soldering</p>	<p>No physical damage shall occur. (Apply to products whose contacts</p>	<p>Solder Temp. : 260±5°C,10±0.5sec. Tyco spec. 109-202,Condition B</p>



PRODUCT SPECIFICATION OF OUPIIN

Heat (耐焊接热)	with non-Lead plating and to Tyco Spec 109-201,Condition B)	



PRODUCT SPECIFICATION OF OUPIIN

Material Housing : I522-PBT

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長春人造樹脂廠股份有限公司

台北市 10477 松江路三零一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX:2253 LONGLITE

NO.301 SONGKIANG ROAD, 7FL., TAIPEI. 10477 TAIWAN

FAX: (02)25033378

CABLE ADDRESS: LONGLITE TAIPEI

TEL: (02)25038131

材質證明

MATERIAL FORMULATION CONFIDENTIAL REPORT

廠商 Customer :

材質名稱 Type of Material : PBT (Poly Butylene terephthalate)聚丁烯對苯二甲酸酯

規格 Grade : PBT 4830-NCB

說明 Description :

PBT 4830-NCB 複合材料包含 PBT 純樹脂、玻纖、溴化耐燃劑及少量添加劑。

The raw material of PBT 4830-NCB compound contains PBT pure resin, glass fiber, flame retardant, and few of additives.

PBT 複合材料成分表

Chemical Composition of PBT Compound

組成		規格		4830-NCB
Chemical Composition		Molecular formula	CAS Number	含量(%) Content (%)
1	PBT 樹脂 PBT resin	$(C_{12}H_{12}O_4)_n$	26062-94-2	45~63
2	玻璃纖維 Glass Fiber	$SiO_2 \cdot CaO \cdot Al_2O_3$	65997-17-3	28~32
3	耐燃劑 Flame Retardant	$(C_{18}H_{16}Br_4O_3)_n$ $(C_{16}H_{10}Br_4O_3)_n$	68928-70-1 71342-77-3	6~12
4	耐燃劑 Flame Retardant	Sb_2O_3	1309-64-4	2~4
5	添加劑 Additives	N.A.	NA	1~7

供應商 MATERIAL SUPPLIER

Company: CHANG CHUN PLASTICS CO., LTD. KAOHSIUNG FACTORY

Signature: Ching-Neng Tseng / Deputy Chief Manager / Technical Section

Address: No.14 KUNG-YEH 1ST ROAD, JEN-WU INDUSTRIES DISTRICT,

KAOHSIUNG, TAIWAN, ROC.

Date: Feb. 22, 2006





PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

QMFZ2 Component - Plastics Wednesday, May 25, 2005 E59481

CHANG CHUN PLASTICS CO LTD
7TH FL 301 SONGKIANG RD TAIPEI TW

Material Designation: **PBT-4830**

Product Description: Polybutylene Terephthalate (PBT), glass reinforced, designated "LONGLITE" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	3.0-3.2	V-0	0	1	75	75	75	-	-

CTI: 3 IEC CTI (V): - HVTR: 2 D495: 7 IEC Ball Pressure (°C): -

Dielectric Strength (kV/mm): - Volume Resistivity (10¹²ohm-cm): - Dimensional Stability(%): -

ISO Tensile Strength (MPa): - ISO Flexural Strength (MPa): - ISO Heat Deflection (°C): -

ISO Tensile Impact (kJ/m²): - ISO Izod Impact (kJ/m²): - ISO Charpy Impact (kJ/m²): -

Report Date: 9/1/1987 Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULL.



PRODUCT SPECIFICATION OF OUPIIN

Material Contact : Copper Alloy (Phosphor Bronze/ Selective Gold Plated)

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GUO CHING PRECISION CO., LTD

試驗成績表

REPORT OF MATERIAL TEST

客戶 : 歐品電子有限公司	國慶精密股份有限公司
Customer	桃園縣龜山鄉大崗村大湖路2-17號
品名 : C5191-H	尺寸 : 0.300x 28.0x C
Product	Size
料號 : 1020301020	日期 : 102/03/26
Lot No	Date
	TEL : 03-2115391~8
	FAX : 03-2115399

化學成份

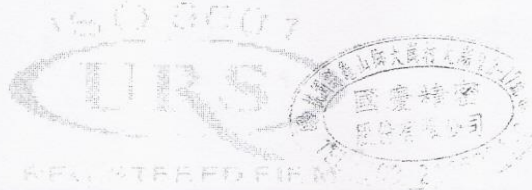
CHEMICAL COMPOSITION

元素 ELEMENT	Cu	P	Sn
規範 MAX	-	0.350	7.000
SPEC MIN	93.400	0.030	5.500
分析值 ANALYSIS VALUE	94.203	0.125	5.626

試驗

TEST RESULT

項目 ITEM	抗張 Tensile Strength kgf/mm2	伸長 Elongation %	硬度 Hardness Test o	結晶粒度 Grain Size µm	導電率 Electric Conductivity
規範 CONDITION	-	-	HV	-	-
SPEC MAX	70.000	-	200.000	-	-
SPEC MIN	58.000	8.000	180.000	-	-
測驗值 MEASURE-MENT VALUE	59.710	22.040	194.000	0.010	14.500



Approved by:



Checked by:





PRODUCT SPECIFICATION OF OUPIIN

Material Shell : Steel (I522 SPCC-Ni / Ni Plated)

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品質證明書 TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中鋼路1號
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG(K12),
TAIWAN, REPUBLIC OF CHINA,
TEL:(07)802-1111 FAX:(07)802-2511,(07)801-9427
FD112-01 0410

客戶名稱 SOLD TO		規格名稱 SPEC		檢驗 INSP.		產品名稱 PRODUCT		發券號碼 INVOICE NO.		證明書編號 CERTIFICATE NO.																																																																																																																																																																																																																																																																													
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<table border="1"> <thead> <tr> <th rowspan="2">項目 ITEM NO.</th> <th rowspan="2">產品序號 LABEL NO.</th> <th colspan="4">尺寸 MATERIAL DESCRIPTION</th> <th rowspan="2">爐號 HEAT NO.</th> <th rowspan="2">鋼捲號碼 COIL NO.</th> <th rowspan="2">試片編號 SAMPLE ID.</th> <th colspan="2">拉伸試驗 G.L.=50</th> <th rowspan="2">*05 硬度 H.R.</th> <th colspan="8">化學成份 CHEMICAL ANALYSIS %</th> <th rowspan="2">備註 REMARK</th> </tr> <tr> <th>厚度 THICK</th> <th>寬度 WIDTH</th> <th>長度 LENGTH</th> <th>數量 QTY</th> <th>重量 WGT</th> <th>Y.S.</th> <th>T.S.</th> <th>C</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Si</th> <th>Cu</th> <th>Ni</th> <th>Cr</th> <th>Mo</th> <th>Al</th> </tr> </thead> <tbody> <tr> <td>018</td> <td>F008384</td> <td>0.40</td> <td>1218</td> <td>COIL</td> <td>1</td> <td>10.0206S205</td> <td>331867</td> <td>331867</td> <td>168</td> <td>32344.8</td> <td>37</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.1</td> </tr> <tr> <td></td> <td>F009109</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>6.4504Q345</td> <td>082832</td> <td>082832</td> <td>171</td> <td>32043.8</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.1</td> </tr> <tr> <td></td> <td>F009111</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>11.1804Q345</td> <td>082832</td> <td>082832</td> <td>171</td> <td>32043.8</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td>F009574</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>7.2984Q345</td> <td>0828302</td> <td>0828302</td> <td>146</td> <td>29046.8</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td>F009575</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>7.4184Q345</td> <td>0828302</td> <td>0828302</td> <td>146</td> <td>29046.8</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td>F878674</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>7.8366S451</td> <td>081385</td> <td>081385</td> <td>156</td> <td>30645.1</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>53</td> </tr> <tr> <td></td> <td>F878675</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>7.8106S451</td> <td>081385</td> <td>081385</td> <td>156</td> <td>30645.1</td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td>F878923</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>5.4384Q344</td> <td>082831</td> <td>082831</td> <td>157</td> <td>31044.8</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>56</td> </tr> <tr> <td></td> <td>F878924</td> <td>"</td> <td>"</td> <td>"</td> <td>1</td> <td>6.7104Q344</td> <td>082831</td> <td>082831</td> <td>157</td> <td>31044.8</td> <td>36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>"</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TOTAL:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												項目 ITEM NO.	產品序號 LABEL NO.	尺寸 MATERIAL DESCRIPTION				爐號 HEAT NO.	鋼捲號碼 COIL NO.	試片編號 SAMPLE ID.	拉伸試驗 G.L.=50		*05 硬度 H.R.	化學成份 CHEMICAL ANALYSIS %								備註 REMARK	厚度 THICK	寬度 WIDTH	長度 LENGTH	數量 QTY	重量 WGT	Y.S.	T.S.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	018	F008384	0.40	1218	COIL	1	10.0206S205	331867	331867	168	32344.8	37											4.1		F009109	"	"	"	1	6.4504Q345	082832	082832	171	32043.8	36											4.1		F009111	"	"	"	1	11.1804Q345	082832	082832	171	32043.8	36											"		F009574	"	"	"	1	7.2984Q345	0828302	0828302	146	29046.8	33											"		F009575	"	"	"	1	7.4184Q345	0828302	0828302	146	29046.8	33											"		F878674	"	"	"	1	7.8366S451	081385	081385	156	30645.1	33											53		F878675	"	"	"	1	7.8106S451	081385	081385	156	30645.1	33											"		F878923	"	"	"	1	5.4384Q344	082831	082831	157	31044.8	36											56		F878924	"	"	"	1	6.7104Q344	082831	082831	157	31044.8	36											"							TOTAL:																
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SURVEYOR TO		<p>茲證明本表所列產品，均依材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.</p>										 冶金技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT																																																																																																																																																																																																																																																																											