PRODUCT SPECIFICATION

(產品規格書)

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
Pitch 0.35mm Female / Male Board to Board Connector	2394-xxFG00DNT	S2320201102-05
	2394-xxMG00DNT	S2320201102-03

PRODUCT NAME (產品名稱)	**DOCUMENT No.:** (文件編號)	**Rev.** (版本)	**OUPIIN** (歐品)
Pitch 0.35mm Female / Male Board to Board Connector (RoHS)	2394spec	X1 (I567)	
	Approved (核準)	**Checked** (審核)	**Prepared** (製作)
	Q.A. Section Chief	Jack Hsing	2020.11.25

1. SCOPE （範圍）

This product specification defines the product performance and the test methods to ascertain the performance of the Pitch 0.35mm Female / Male Board to Board 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Pitch 0.35mm Female / Male Board to Board 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。)

3.6. *RATING CURRENT AND RATING VOLTAGE (額定電流與額定電壓)*

Rated current : 0.3 A/ pin (Signal pin) ; 5.0A/ power pin (Stopper for power supply),
rating voltage is 50V DC/AC.
額定電流: 0.3 A/pin (信号端子)；5.0A/power pin（固定片作為電源接觸），額定電壓 50V DC/AC。

3.7. *STORAGE AND OPERATING TEMPERATURE (儲存使用溫度)*

Temperature Range: -40℃ to +50℃ storage; -40℃ to +85℃ operating.
溫度範圍：-40℃至+ 50℃儲存 ； -40℃至+ 85℃工作。

4. ENVIRONMENTAL（環境要求）

4.1. *SOLDERABILITY （可焊性）*

Connectors meet solder ability to E364-52. Finish shall be free of contaminants.
(產品可焊性符合 E364-52 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）

Each cycle consists of three consecutive phases.
(每個焊接週期包括三個連續的階段)

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 220~240°C for products with lead, or 235~260°C for lead-free products. The tin dip time is duration for 3~10 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220~240°C，無鉛產品控制在235~260°C。浸錫時間控制在3~10秒。)

3. Cool Down （冷卻）

Cool down shall not exceed 6℃ per second.
(冷卻速度不超過6℃/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.)

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**所列的機械，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 10cycles 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10次，每組測試有5個樣品)

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.
2. Contact Resistance (接觸阻抗)	70 mΩ Maximum.(Signal PIN, Initial) 20 mΩ Maximum.(Power PIN, Initial)	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)	Initial: 100 MΩ Minimum. After test: 100 MΩ Minimum. 初始值: 100 MΩ Minimum. 测试后: 100 MΩ Minimum.	EIA 364-21 Apply a voltage of 250 VDC between adjacent terminals. of the plugs and receptacles. Electrification Time: 1 min 施加 250VDC 到公端&母端相邻两根端子之間，通電時間：1 分鐘.
4. Dielectric Strength (耐電壓)	Apply a voltage of 250V AC between adjacent terminals. of the plugs and receptacles. Electrification Time: 1 min. Leakage current: 1mA Maximum 施加 250V AC 到公端&母端相鄰兩根端子之間，通電時間 1 分鐘. 表面漏电：1mA Maximum.	MIL-STD-202, Method 301. Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. 測試產品端子間以及端子與接地間的電壓.
5. Temperature rise (温升測試)	ΔT30℃ Maximum.（POWER PIN） 最高ΔT30℃。（POWER PIN）	EIA 364-20, Test Method B Connect series, Mate connector and measure the temperature rise at the rated current after 3 hours. 串聯，匹配連接器並量測在額定電流下通電 3 小時前後的温度升高的差異.

6. Vibration (震動測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin) 3. No discontinuities of 1 μ sec or longer duration. 導通瞬斷不可超過 1.0μ 秒.	MIL-STD-202, Method-201 half-sine wave, apply 0.1 A DC current。 frequency:10-55-10 Hz; amplitude: 1.52mm; sweep time:1 minute the connectors condition is PCB mounting and the plugs mated with receptacles , they must be tested 2 hours in each of the 3 axis(X,Y,Z), total 6 hours. 半正弦波，通以 0.1ADC 電流。 測試頻率:10-55-10 Hz; 振幅: 1.52mm 波形完成掃描時間:1 分鐘；將公母頭配合好之後在 X,Y,Z 3 個軸向各測試 2 小時，共 6 小時.
7. Physical Shock (機械冲擊)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin) 3. No discontinuities of 1 μ sec or longer duration. 導通瞬斷不可超過 1.0μ 秒.	EIA 364-27 Test Condition A half-sine wave, apply 0.1ADC current Acceleration:50G(490m/s2);duration：11ms. the connectors condition is PCB mounting and the plugs mated with receptacles , shocking apply to 3 times in each of the 6 direction of 3 axis.18 total shock. 半正弦波，通以 0.1ADC 電流. 測試的重力加速度:50G(490m/s2) 測試時間:11ms. 將焊接 PCB 公母頭配合，在 X,Y,Z 三軸 6 個方向各沖擊 3 次，共 18 次.
8. Durability (壽命測試)	30 次插拔測試後： 1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin)	EIA 364-09 Make the specimens that are on board mated, then fix the receptacles to the machine on horizontal or perpendicular direction. Use the machine catch the plugs and separate the specimens, then make the plugs be fully mated with receptacles at a rate of 25.4 mm/min on horizontal or perpendicular direction.duration:30 cycles 將焊板的 BTB 公端與母端組合後，將母端水平或垂直固定在測試儀器，用儀器夾住公端分離後再將公端以水平或垂直插入焊板母端到位，測試速度 25.4 mm/min，循環 30 次.

<table>
<tr>
<td>9. Connector Mating & Unmating Force (插入/拔出力)</td>
<td>Mating force：
1.5N*(N+4) Max.
Unmating force：
0.15N*(N)Min.
(N =產品 pin 數)</td>
<td>EIA 364-13
Make the specimens that are on board mated, then fix the receptacles to the machine on horizontal or perpendicular direction. Use the machine catch the plugs and separate the specimens, then make the plugs be fully mated with receptacles at a rate of 25.4 millimeters/minute on horizontal or perpendicular direction.
將焊板的 BTB 公端與母端組合後，將母端水平或垂直固定在測試儀器，用儀器夾住公端分離後再將公端以水平或垂直插入焊板母端到位，測試速度 25.4 mm/min.</td>
</tr>
<tr>
<td>10. Contact Retention Force (端子保持力)</td>
<td>0.20 N/Pin Minimum.</td>
<td>EIA 364-35
The pull speed shall 25.4 mm per minute on the terminal assembled in the housing.
以 25.4 mm/min 的速度，将组装在膠芯内的以垂直方向將端子拔出.</td>
</tr>
<tr>
<td>11. Thermal Shock (熱衝擊)</td>
<td>1. Shall meet visual requirement, Show no physical damage.
外觀没有任何的物理损坏
2. Contact Resistance value
After test: 70 mΩ Max.
(Signal PIN,Initial)
20 mΩ Max.
(Power PIN, Initial)
測試後電阻值：70mΩ Max.(信号 pin)
20mΩ Max.(电源 pin)</td>
<td>EIA 364-32, Test Condition I
specimens shall be separated and exposed 5 cycles as the following table conditions.
將測試樣本公母端分離暴露條件下，在如下表中的條件，如此測試循環 5 次.
<table>
<tr><td>Step.</td><td>1</td><td>2</td><td>3</td><td>4</td></tr>
<tr><td>Temp. (℃)</td><td>-55 +0 / -3</td><td>25 +10 / -5</td><td>85 +3 / -0</td><td>25 +10 / -5</td></tr>
<tr><td>Exposed time (min)</td><td>30</td><td>5</td><td>30</td><td>5</td></tr>
</table>
</td>
</tr>
<tr>
<td>12. Humidity (耐濕性)</td>
<td>1. Appearance shall not be distinct damage.
不能出现明顯的外觀損壞.
2. The Insulation Resistance value
After test： 100 MΩ Min
測試後絕緣阻抗值： 100 MΩ Min.</td>
<td>EIA 364-31, Test Condition A Method III,
The specimens shall be separated and left in the chamber of 40±2℃ temperature and 90~95% humidity for 96hrs. After test drying in ambient condition for 1 hours.
將測試樣本公母端分離放在一個恆溫恆濕的空間内暴露 96 小時，此空間温度：40±2℃，
相對溼度：90~95%，測試完成後將樣本擦乾放置在周圍環境中 1 小時.</td>
</tr>
</table>

13. Solder ability (焊接性)	The surface of the portion to be soldered shall at least 95% covered area must show no voids, pin holes 要求焊腳潤锡面積達到浸潤面積的 95% 以上.	EIA 364-52 Soldering time: 4 to 6 seconds. Temperature: 260±5°C. 焊接時間：4~6 秒。 溫度：260±5°C。
14. Resistance to high storage temperature (高溫儲存測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin)	Make the samples be separated and Leave them in the chamber of temperature +85℃ for 96hr，then it shall be subjected to standard atmospheric condition for 1~2h. 將測試樣本分離放置在一個+85℃的空間裡暴露 96 小時，然後在標準環境下放置 1-2h.
15. Resistance to Low storage temperature (低溫儲存測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin)	Make the samples be separated and Leave them in the chamber of temperature -40℃ for 96hr，then it shall be subjected to standard atmospheric condition for 1~2h 將測試樣本分離放置在一個-40℃的空間裡暴露 96 小時，然後在標準環境下放置 1-2h.
16. Salt water spray (鹽霧測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理损坏 2. Contact Resistance value After test: 70 mΩ Max. (Signal PIN,Initial) 20 mΩ Max. (Power PIN, Initial) 測試後電阻值：70mΩ Max.(信号 pin) 20mΩ Max.(电源 pin)	EIA 364-16A Temperature: 35℃±2℃ 温度：35℃±2℃ Density of salt water : 5±1% 鹽水濃度：5±1% Duration: 24±4 hours. 持續時間: 24±4 hours.

17. IR .Reflow (翹曲測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理損壞 2. Samples Without PCB after IR.Relow Coplanarity 0.10 mm Max 樣品不含 PCB,IR Relow 後共面度 0.10 mm Max	Soak Zone :150℃~200℃ Time:100~120s Reflow Zone > 217℃ Time:100~150s Peak Temperature: 260±5℃ 30s Min The test to 2 cycles for each sample The IR reflow temp ref. to 5.0。 均温區：150℃~200℃ 時間：100~120s 回流區：大於 217℃ 時間：100~150s 峰值温度：260±5℃ 30s Min，此測試樣品需循環 2 次.
18. Double sided PCB IR. Reflow testing (正反向 IR reflow 測試)	1. Shall meet visual requirement, Show no physical damage. 外觀没有任何的物理損壞. 2. The product not allow dropping from PCB board by the second time of IR reflow test . 两次過爐後，產品不能從 PCB 板掉落.	Product soldering in PCB and Thru, IR Flow after cooling 30 minutes and opposite PCB make product down side thru。 The IR reflow temp ref. to 5.0。 Reflow soldering: Soak Zone :150℃~200℃ Time:100~120s Reflow Zone > 217℃ Time:100~150s Peak Temperature: 260±5℃ 30s Min 產品焊接 PCB 板，經過 IR Reflow 後，冷卻 30 30 分鐘，再將 PCB 反向，再過一遍 IR Reflow。 均温區：150℃~200℃ 時間：100~120s 回流區：大於 217℃ 時間：100~150s 峰值温度：260±5℃ 30s Min.

Material Housing : I567-LCP SV6808

SGS Test Report Click here

如需 SGS 測試報告請點選此處

Certificate of Analysis

Sumitomo Chemical Co., Ltd.

Quality Assurance Office, Energy & Functional Materials Sector

Grade	SUMIKASUPER SV6808THF B	Quantity	
Lot No.	19Z07KR1	Date	

	ITEM	UNIT	Value	Specification	
				Lower Limit	Upper Limit
1	Ash Content	%	40.9	38.0	44.0
2	Specific Gravity	-	1.73	1.70	1.76
3	Tensile Strength	MPa	116	85	180
4	Tensile Elongation	%	4.1	2.5	10.0
5	Flexural Strength	MPa	129	100	180
6	Flexural Modulus	GPa	9.7	7.5	15.0
7	Izod Impact Strength	J/m	286	150	600
8	DTUL(1.82MPa)	℃	269	240	300
9	Flow Temperature	℃	305	295	310

Note	
Judgement	PASS

M Tanaka

M Tanaka

Material Housing :UL

Component - Plastics [guide info] E249884

SUMITOMO CHEMICAL CO LTD

ELECTRONIC MATERIALS DIV, TOKYO SUMITOMO TWIN BLDG, 27-1 SHINKAWA 2-CHOME, CHUO-KU TOKYO 104-8260 JP

SV6808THF(r5)

Liquid Crystal Polymer (LCP), "SUMIKASUPER", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, BK	0.200	V-0	4	1	130	130	130
	0.38	V-0	4	1	130	130	130
	0.75	V-0	4	1	130	130	130
	3.0	V-0	4	0	130	130	130

Comparative Tracking Index (CTI): 3

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10^X ohm-cm): -

High-Voltage Arc Tracking Rate (HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

(r5) - Virgin and regrind material up to 70% by weight have the same V-0 flammability characteristics. No other properties have been evaluated for 25% - 70% regrind.

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

Report Date: 2012-12-26

Last Revised: 2014-05-12

© 2015 UL LLC

IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.200	V-0 (NC, BK)
			0.38	V-0 (NC, BK)
			0.75	V-0 (NC, BK)
			3.0	V-0 (NC, BK)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	0.200	960
			0.38	960
			0.75	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	0.200	850
			0.38	850
			0.75	875
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

Material Contact (F) : I567-C5210R

SGS Test Report Click here

如需 SGS 測試報告請點選此處

产品检查证明书
CERTIFICATE OF INSPECTION

提交日期 DATE： 2019/10/10
证书编号 CERTIFICATE No.： 20191011002
订单No. PURCHASE ORDER No.： 20190927014
尺寸 SIZE： 0.080×182.000
备料No. WORK No.： L706 0043
订货方 CUSTOMER： Furukawa Electric Trading SZ Ltd
批量No. LOT No.： ER2555
购入方 DESTINATION： 东莞古河金属有限公司
提交用规格No. SPECIFICATION No.：
品名 COMMODITY： C5210R(SP)-SH
状态 TEMPER： SH
合同数量 CONTRACTED QUANTITY： 1,000 Kg
交货数量 TESTED QUANTITY： 1 COIL 426.0 Kg

机械及物理性质 Mechanical & Physical Properties

测试项目 Item		拉伸强度 (N/mm2)	延伸率 (%)	硬度 (Hv)	弹性界限值 (N/mm2)	结晶程度 (mm)	
规格值 Spec. Value	Min	735	9.0	230	510		
	Max	835		270		0.003	
试料 Specimen		737	22.5	236	>990	0.003	
测试项目 Item							
规格值 Spec. Value	Min						
	Max						
试料 Specimen							

外观检查 Surface	GOOD	尺寸检查 Dimension	GOOD

测试项目 Item							
规格值 Spec. Value	Min						
	Max						
平均(Ave)							
最小(Min)							
最大(Max)							

化学成分 Chemical Composition(%)

元素 Element		Fe	Pb	Sn	P	Zn	Cu+Sn+P	
规格值 Spec. Value	Min			7.00	0.030		99.70	
	Max	0.100	0.020	9.00	0.350	0.200		
分析值 Act. Value		0.003	<0.001	7.77	0.123	0.014	99.98	
元素 Element								
规格值 Spec. Value	Min							
	Max							
分析值 Act. Value								

(备注 NOTES)

东莞古河金属有限公司 品证专用章

上述产品满足指定的规格，特此证明。 未经XFMW书面同意，不得复制本证明书
We certify that the above mentioned goods have been standed the test in accordance with the specification.
The certificate of inspection shall not be reproduced except in full without the written approval of XFMW.

鑫古河金属（无锡）有限公司 / XFMW XIN FURUKAWA METAL (WUXI) CO., LTD.

品质保证部长 Takashi Nomakura
Manager of Quality Assurance Section

Material Contact (M) : I567-C5191R

SGS Test Report Click here

如需 SGS 測試報告請點選此處

产品检查证明书
CERTIFICATE OF INSPECTION

提交日期 DATE： 2019/09/16

证书编号 CERTIFICATE No.： 20190916065

订单No. PURCHASE ORDER No.： 20190904001

尺寸 SIZE： 0.080×182.000

各料No. WORK No.： L706 0035

订货方 CUSTOMER： Furukawa Electric Trading SZ Ltd

批量No. LOT No.： D54518

购入方 DESTINATION： 东莞古川金属有限公司

提交用规格No. SPECIFICATION No.：

品名 COMMODITY： C5191R(SP)-H

状态 TEMPER： H

合同数量 CONTRACTED QUANTITY： 400 Kg

交货数量 TESTED QUANTITY： 盘 1 COIL 408.0 Kg

机械及物理性质 Mechanical & Physical Properties

测试项目 Item		拉伸强度 (N/mm2)	延伸率 (%)	硬度 (Hv)	Bad-Way 180° R= 2.0T	结晶粒度 (mm)	平均表面粗糙度 (μm)
规格值 Spec. Value	Min	590	8.0	180			
	Max	705		230		0.003	0.100
试料 Specimen		643	20.0	206	GOOD	0.003	0.099
测试项目 Item							
规格值 Spec. Value	Min						
	Max						
试料 Specimen							

外观检查 Surface	GOOD	尺寸检查 Dimension	GOOD

测试项目 Item							
规格值 Spec. Value	Min						
	Max						
平均(Ave)							
最小(Min)							
最大(Max)							

化学成分 Chemical Composition(%)

元素 Element		Fe	Pb	Sn	P	Zn	Cu+Sn+P	
规格值 Spec. Value	Min			5.50	0.030		99.50	
	Max	0.100	0.020	7.00	0.350	0.200		
分析值 Act. Value		0.005	<0.001	5.79	0.116	0.011	99.98	
元素 Element								
规格值 Spec. Value	Min							
	Max							
分析值 Act. Value								

(备注 NOTES)

东莞古川金属有限公司 品证专用章

上述产品满足指定的规格，特此证明。 未经XFMW书面同意，不得复制本证明书

We certify that the above mentioned goods have been standed the test in accordance with the specification. The certificate of inspection shall not be reproduced except in full without the written approval of XFMW.

鑫古河金属（无锡）有限公司 / XFMW XIN FURUKAWA METAL (WUXI) CO., LTD.

品质保证部长 Takashi Yamakura

Manager of Quality Assurance Section

Material Solder Tab : I567-EFCUBE820

SGS Test Report Click here

如需 SGS 測試報告請點選此處

検 査 証 明 書
CERTIFICATE OF INSPECTION

証明書NO CERTIFICATE NO : 200365662002251

古河電気工業株式会社 A
銅条・高機能材事業部門 日光伸銅工場
栃木県日光市清滝町500番地
FURUKAWA ELECTRIC CO., LTD.
COPPER & HIGH PERFORMANCE MATERIAL PRODUCTS DIVISION
NIKKO COPPER ROLLING PLANT
500 Kiyotaki Nikko City, JAPAN

御注文番号 ORDER NO.	: 222000102 OCT	日付 DATE	: 2020-03-06
御注文先 CUSTOMER	: FURUKAWA ELECTRIC HONG KONG LTD.		
契約番号 CONTRACT NO.	: 20200107012	当社手配番号 WORK NO	: H 68825B
仕向先 DESTINATION	: FURUKAWA ELECTRIC HONG KONG LTD.	質別 TEMPER	: H
品名 ARTICLE	: EFCUBE820-H		
寸法 SIZE(mm)	: 0.08X210XCOIL		
規格番号 SPEC. NO.	: FURUKAWA STANDARD NI	契約数量 CONTRACTED QUANTITY	: 1000.0
図面番号 DRAWING NO.	:	納入数量 TESTED QUANTITY	: 1 615.9

	個数 NO. OF PIECE OR COIL	質量 WEIGHT(KG)

化学成分 Chemical Composition (%)

元素 Element	Ni	Si	Zn	Sn	Mg	Cr	Cu					
規格値 MIN	2.0	0.45	0.3	0.1	0.05	0.05						
Spec Value MAX	2.8	0.8	0.7	0.6	0.2	0.4	BAL.					
1	2.430	0.689	0.495	0.151	0.115	0.154	BAL.					

機械的および物理的性質 Mechanical & Physical Properties 試験・検査 Description of Test

項目 Item	Thickness mm	Tensile Strength N/mm2	Elongation GL=50mm %	Yield Strength 0.2% N/mm2	Vickers Hardness HV0.1	90° 一軸 Bend Test R=0
規格値 MIN	0.075	750	1	710	215	
Spec Value MAX	0.085	850		830	275	
1	0.079	839	3.5	814	264	GOOD

項目 Item	Electrical Cond. %IACS
規格値 MIN	35
Spec Value MAX	
1	37.2

項目 Item	
規格値 MIN	
Spec Value MAX	

Lot No. : 07795

重量明細 Weight Details (kg)

No	Weight	No	Weight	No	Weight	No	Weight	No	Weight	No	Weight

Notes
Appearance and Dimensions: GOOD

RoHS 指令対応品
Compliant with RoHS Regulations

Surveyor to

Surveyor No.

上記製品は指定の規格に合格していることを証明します。
We certify that the above mentioned goods have been
stanaed the test in accordance with the specification.

M. Takei

品質保証部長
General Manager of Q.A.D.