

1.適用範圍 SCOPE

RoHS COMPLIANT PRODUCT

本規格書適用於 FPC CONNECTOR BL309P 系列。
This specification covers the FPC CONNECTOR BL309P series.

2.產品編碼 ORDERING INFORMATION

編碼原則：BL 3 09 P - xx S 3 1 - TA H 0
Coding Principles **1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11**

1	系列名稱 Series name	BL
2	端子間距 Pitch between contacts	3 – Pitch=0.3mm
3	高度 Height	09 – Height=0.9mm
4	其它規格 Other spec	P
5	接點數量 Number of contacts	07 , 09 , 11 , 13 , 15 , 17 , 19 , 21 , 23 , 25 , 27 , 29 , 31 , 33 , 35 , 37 , 39 , 41 , 43 , 45 , 51 , 61 , 71
6	電鍍方式 Plating	S – 鍍底選鍍金 1μ”~3μ” / 1μ”~3μ” Gold Flash (Nickel Barrier)
7	對插方式 Mating	3 – 後壓式 / Back-Flip Type
8	組合樣式 Assembly style	1 – 臥式/雙接觸規格 / Right Angle/Dual Contact Type
9	包裝方式 Packaging	TA – 帶狀捲式包裝 / Embossed Tape
10	無鹵 Halogen Free	H – 無鹵 / Halogen Free
11	延伸性版本 Extended version	0 – 標準品 / Standard

3.外觀尺寸 CONNECTOR DIMENSIONS

請參照圖面。
See attached drawings.

4.材質 MATERIAL

絕緣膠體 Housing : L.C.P
顏色 Color : 米色 Beige
耐燃等級 / (UL94V-0) Flammability Rating (UL94V-0)

蓋子 Actuator : L.C.P
顏色 Color : 黑色 Black
耐燃等級(UL94V-0) / Flammability Rating (UL94V-0)

導電端子 Contacts : 磷青銅 / Phosphor Bronze

電鍍方式 Plating : 鍍底選鍍金 1μ”~3μ” / 1μ”~3μ” Gold Flash (Nickel Barrier)

5.建議 P.C.B LAYOUT 圖 ACCOMMODATED P.C.B LAYOUT

請參照圖面.

See attached drawings.

6.等級 RATING

項 目 ITEM	規 格 STANDARD
最大容許電壓 Operating Voltage(Max.)	50V AC(rms)
最大容許電流 Current Rating(Max.)	0.2A DC
使用溫度範圍 Operating Temperature Range	-55°C ~ +85°C (包含電流通過所產生的上昇溫度) -55°C ~ +85°C (Including terminal temperature rise)

項 目 ITEM	規 格 STANDARD
使用溼度範圍 Operating Humidity Range	相對濕度 85%以下 Relative humidity 85% max. (No condensation)
保存溫度範圍 Storage Temperature Range	-40°C ~ +50°C
保存濕度範圍 Storage Humidity Range	相對濕度 85%以下 Relative humidity 85% max.

7.性能 PERFORMANCE

項目 ITEM	測試條件 TEST CONDITION	規格 REQUIRMENT
電氣特性 ELECTRICAL PERFORMANCE		
接觸阻抗 Contact Resistance	將樣品與適合之 FPC 連接，測試電壓 20mV，限電流 10mA 下進行阻抗測試。 (JIS C5402 5.4) Mate applicable FPC and measure by dry circuit, 20mV Max, 10mA. (JIS C5402 5.4)	100 mΩ 以下 100 mΩ Max.
絕緣阻抗 Insulation Resistance	將樣品與適合之 FPC 連接，提供相鄰端子間測試電壓 250V DC 進行絕緣阻抗測試。 (JIS C5402 5.2 / MIL-STD-202 Method 302) Mate applicable FPC and apply 250V DC between adjacent terminal or ground. (JIS C5402 5.2 / MIL-STD-202 Method 302)	1000 MΩ 以上 1000 MΩ Min.
耐電壓 Dielectric Strength	將樣品與適合之 FPC 連接，相鄰端子間需可承受 150V AC(rms) 1 分鐘。 (JIS C5402 5.1 / MIL-STD-202 Method 301) Mate applicable FPC, apply 150V AC(rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1 / MIL-STD-202 Method 301)	目視外觀無任何損壞異狀 No Breakdown

項目 ITEM	測試條件 TEST CONDITION	規格 REQUIRMENT	
機械特性 MECHANICAL PERFORMANCE			
FPC 保持力 FPC Retention Force	插入 0.2mm 標準 FPC，將蓋子蓋上，以操作速度每分鐘位移 25±3mm 進行 FPC 保持力測試。 Insert the actuator, pull 0.2mm of the FPC at a rate of 25±3mm per minute.	See Retention Force table (Page 6)	
環境特性及其他性能 ENVIRONMENTAL PERFORMANCE AND OTHERS			
蓋子往返操作測試 Repeated Actuator Insertion / Withdrawal	將蓋子與 FPC 反覆連接，以每分鐘小於 10 cycles 的速度，連續操作 20 cycles。 Insert and withdraw actuator up to 20 cycles at the speed rate of less than 10 cycles/minute.	接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
溫昇 Temperature Rise	量測通過 FPC 最大容許電流時，樣品接觸點之溫昇。 (UL498) Mate applicable FPC and measure the temperature rise of contact when the maximum AC rated current is passed. (UL498)	溫昇 Temperature Rise	30°C 以下 30°C Max.
耐振性 Vibration	通過 DC 電流 1mA，位移相對距離 1.5mm，振動週期 10~55~10 Hz 在 1 分鐘內，持續 2 小時，方向在 X,Y,Z 軸做測試。 (MIL-STD-202 Method 201) Mate connectors and subject to the following vibration conditions, for period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1mA during the test. Amplitude : 1.5mm P-P Frequency : 10~55~10 Hz in 1 minute. Duration : 2 hours in each of X,Y,Z axes. (MIL-STD-202 Method 201)	外觀 Appearance	目視外觀無任何 損壞異狀 No Damage
		接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
		瞬間斷電 Discontinuity	1μ sec 以下 1μ sec Max.
耐衝擊性 Shock	將樣品與適合之 FPC 連接，通過 DC 1 mA 測試條件，連續測試 3 次。 在 X、Y、Z 3 軸 6 個垂直方向施予重力加速度 490m/s ² {50G} 衝擊。 (JIS C0041/MIL-STD-202 Method 213) Mate applicable FPC and subject to the following shock conditions. 3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test. (Total of 18 shocks) Peak value : 490m/s ² {50G} (JIS C0041 / MIL-STD-202 Method 213)	外觀 Appearance	目視外觀無任何 損壞異狀 No Damage
		接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
		瞬間斷電 Discontinuity	1μ sec 以下 1μ sec Max.

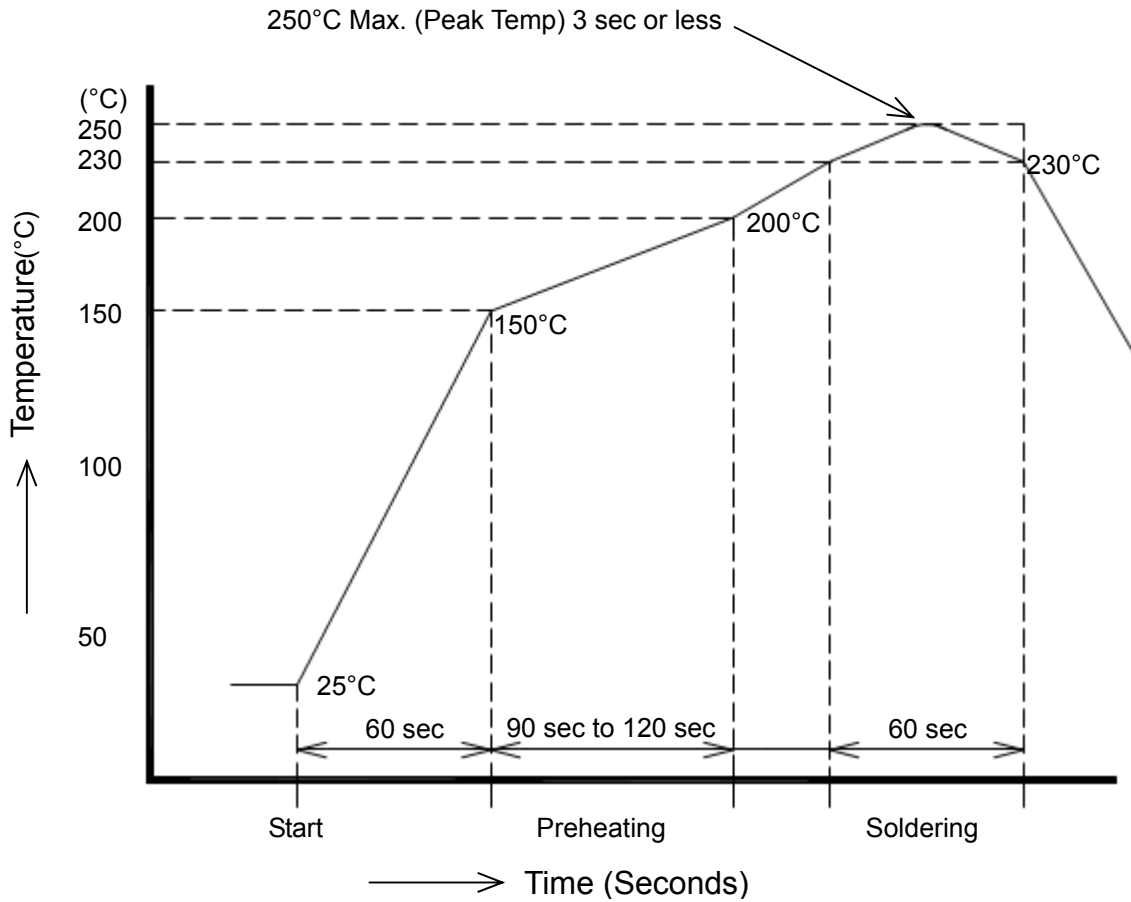
項目 ITEM	測試條件 TEST CONDITION	規格 REQUIRMENT	
耐熱性 Heat Resistance	將樣品與適合之 FPC 連接，置於環境溫度 $85\pm 2^{\circ}\text{C}$ 測試時間 96 小時，再置放於室溫下 1~2 小時。 (JIS C0021 / MIL-STD-202 Method 108)	外觀 Appearance	目視外觀無任何損壞異狀 No Damage
	Mate applicable FPC and expose to $85\pm 2^{\circ}\text{C}$ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (JIS C0021 / MIL-STD-202 Method 108)	接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
耐寒性 Cold Resistance	將樣品與適合之 FPC 連接，置於環境溫度 $-40\pm 2^{\circ}\text{C}$ ，測試時間 96 小時，再置放於室溫下 1~2 小時。 (JIS C0020)	外觀 Appearance	目視外觀無任何損壞異狀 No Damage
	Mate applicable FPC and expose to $-40\pm 2^{\circ}\text{C}$ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (JIS C0020)	接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
耐濕性 Humidity	將樣品與適合之 FPC 連接，置於環境溫度 $40\pm 2^{\circ}\text{C}$ ，相對溼度 90~95%，測試時間 120 小時，再置放於室溫下 1~2 小時。 (JIS C0022 / MIL-STD-202 Method 103)	外觀 Appearance	目視外觀無任何損壞異狀 No Damage
	Mate applicable FPC and expose to $40 \pm 2^{\circ}\text{C}$, relative humidity 90 to 95% for 120 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (JIS C0022 / MIL-STD-202 Method 103)	接觸阻抗 Contact Resistance	100 mΩ 以下 100 mΩ Max.
		耐電壓 Dielectric Strength	需能符合耐電壓測試 No Breakdown
冷熱衝擊 Temperature Cycling	將樣品與適合之 FPC 連接，承受 5 cycles 冷熱衝擊後，置放於室溫下 1~2 小時。 (JIS C0025)	外觀 Appearance	目視外觀無任何損壞異狀 No Damage
	Mate applicable FPC and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle time : a) $-55\pm 3^{\circ}\text{C}$ 30minutes b) $+85\pm 3^{\circ}\text{C}$ 30minutes (Transit time shall be with in 3 minutes) (JIS C0025)		

項目 ITEM	測試條件 TEST CONDITION	規格 REQUIREMENT	
鹽水噴霧 Salt Spray	將樣品與適合之 FPC 連接，使用 5±1%濃度鹽水，測試溫度 35±2°C，測試時間 48 小時，後於室溫下使用清水沖洗後再乾燥。 (JIS C0023 / MIL-STD-202 Method 101) Mate applicable FPC and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed. NaCl solution Concentration : 5 ± 1% Spray time : 48 hours Ambient temperature : 35 ± 2°C (JIS C0023 / MIL-STD-202 Method 101)	外觀 Appearance	目視外觀無任何損壞異狀 No Damage
焊錫性 Solderability	錫溫 245±5°C，將導電端子浸入錫爐液面至 Housing 距離錫面 0.2mm 位置，焊錫時間 3±5 秒。 Tip of solder tails and fitting nails into the molten solder (held at 245±5°C) up to 0.2mm from the bottom of the housing for 3±5 seconds.	潤濕性 Solder Wetting	潤濕面積 95%以上，並不得有漏焊針孔現象 95% of immersed area must show no voids, pin holes.
焊錫耐熱性 Resistance to Soldering Heat	使用紅外線迴焊時請參考第 8 點 When reflowing...Refer to paragraph 8. 使用烙鐵手焊時須可符合下述錫錫條件 <u>Soldering iron method</u> 0.2mm from terminal tip and fitting nail tip. Soldering time : 5 seconds Max. Solder temperature : 370~400°C	外觀 Appearance	目視外觀無任何損壞異狀 No Damage

FPC Retention Force

No. of Contacts	Unit	Retention Force (Min.) FPC=0.20mm			
		1st	5th	10th	20th
07	Kgf	0.091	0.084	0.077	0.070
09	Kgf	0.117	0.108	0.099	0.090
11	Kgf	0.143	0.132	0.121	0.110
13	Kgf	0.169	0.156	0.143	0.130
15	Kgf	0.195	0.180	0.165	0.150
17	Kgf	0.221	0.204	0.187	0.170
19	Kgf	0.247	0.228	0.209	0.190
21	Kgf	0.273	0.252	0.231	0.210
23	Kgf	0.299	0.276	0.253	0.230
25	Kgf	0.325	0.300	0.275	0.250
27	Kgf	0.351	0.324	0.297	0.270
29	Kgf	0.377	0.348	0.319	0.290
31	Kgf	0.403	0.372	0.341	0.310
33	Kgf	0.429	0.396	0.363	0.330
35	Kgf	0.455	0.420	0.385	0.350
37	Kgf	0.481	0.444	0.407	0.370
39	Kgf	0.507	0.468	0.429	0.390
41	Kgf	0.533	0.492	0.451	0.410
43	Kgf	0.559	0.516	0.473	0.430
45	Kgf	0.585	0.540	0.495	0.450
51	Kgf	0.663	0.612	0.561	0.510
61	Kgf	0.793	0.732	0.671	0.610
71	Kgf	0.923	0.852	0.781	0.710

8. 紅外線迴焊溫度曲線 INFRARED REFLOW CONDITION

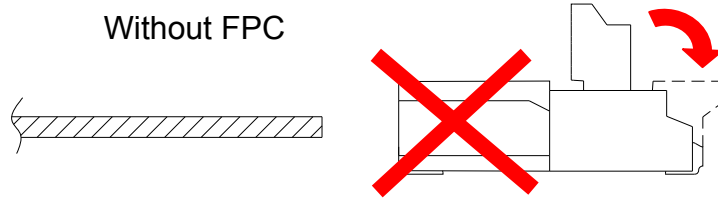


溫度條件 TEMPERATURE CONDITION GRAPH

(基板表面溫度) (TEMPERATURE ON BOARD PATTERN SIDE)

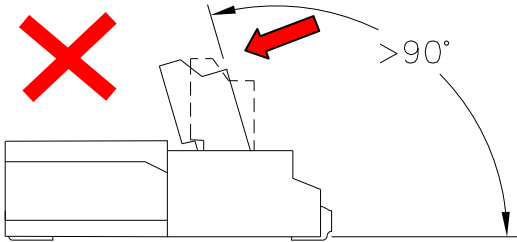
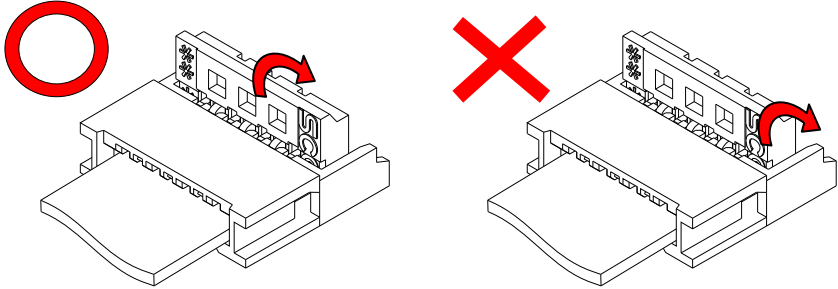
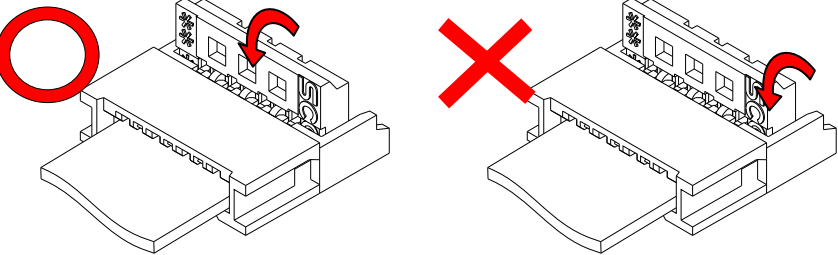
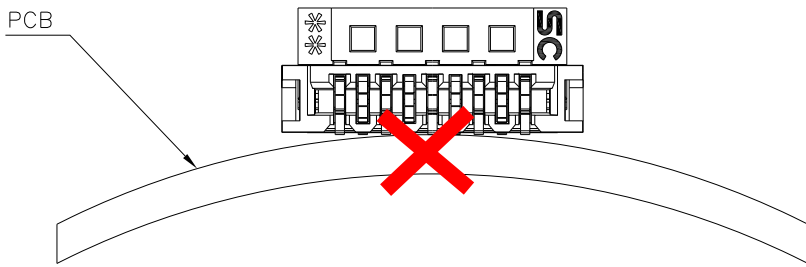
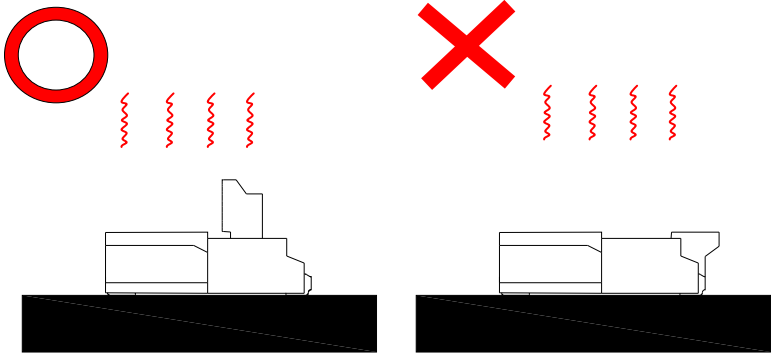
9. 操作指示 INSTRUCTION UPON USAGE

- Do not lock the actuator without an FPC inserted.
Locking the actuator without an FPC inserted may cause the terminal deformation.



- Do not close the actuator before inserting FPC.

<p>步驟 1: 當上蓋呈打開狀態時，將 FPC 插入連接器中。</p> <p>Joining step 1: Insert the FPC with the actuator opened.</p>	
<p>步驟 2: FPC 完全插入且沒有移動，壓上蓋往下旋轉至定位。</p> <p>Joining step 2: FPC is totally inserted and not moved, press the actuator and rotate down to make a reservation.</p>	
<p>步驟 3: FPC 退出時，掀起上蓋，將 FPC 退出。</p> <p>Joining step 3: Lift the actuator, withdraw FPC.</p>	

<p>警告!! 旋轉的角度不可大於 90 度。</p> <p>Warning!! The whirling angle can't be greater than 90 degrees.</p>	
<p>警告!! 施壓的力量應該要平均且要壓蓋的中心部位。</p> <p>Warning!! The strength of exerting pressure should be average and pushing actuator at the center.</p>	
<p>警告!! 掀蓋要掀蓋的中心部位。</p> <p>Warning!! To lift actuator at the center.</p>	
<p>警告!! PCB 板平整度必須在 0.1mm max。</p> <p>Warning!! The roughness of PCB board must be in 0.1mm max.</p>	
<p>警告!! 在 PCB 上板(過迴焊爐)之前，禁止將蓋子蓋下。</p> <p>Warning!! Operation of the actuator before mounting on the PCB is not recommended.</p>	

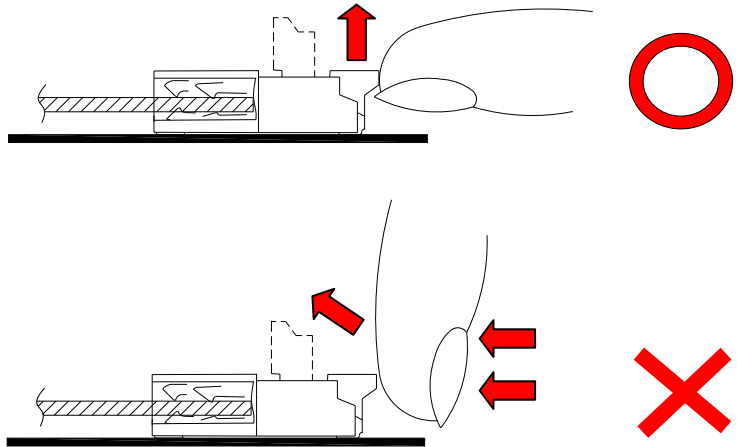
<p>警告!! 排線伸出連接器 5mm 以內區域不可上下彎折。</p> <p>Warning!! Design the FPC layout with care not to bend it sharply near the insertion opening.</p>	
<p>警告!! 零件不可高於排線插入位置。</p> <p>Warning!! Component not too high impact FPC insertion position.</p>	
<p>警告!! 測試治具使用之排線厚度應 ≤ 產品實際使用之排線。</p> <p>Warning!! The thickness of testing FPC should ≤ Real FPC used on product.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(測試治具)</p> </div> <div style="text-align: center;"> <p>(實際使用)</p> </div> </div>
<p>警告!! 不要對上蓋施加過多的外力。</p> <p>Warning!! Do not apply excess force to the housing during the operation.</p>	

警告!!

開蓋時不要將蓋子向左推擠。

Warning!!

Do not pinch or pick the actuator to left.



10. TAPE AND REEL PACKAGE SPECIFICATION

10-1. 帶狀捲式包裝尺寸：請參照圖面

Tape and Reel Dimensions: See attached drawings.

10-2. 規格

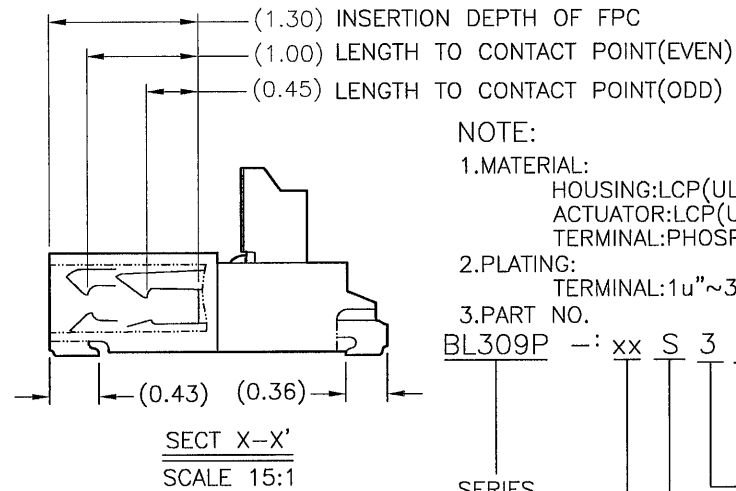
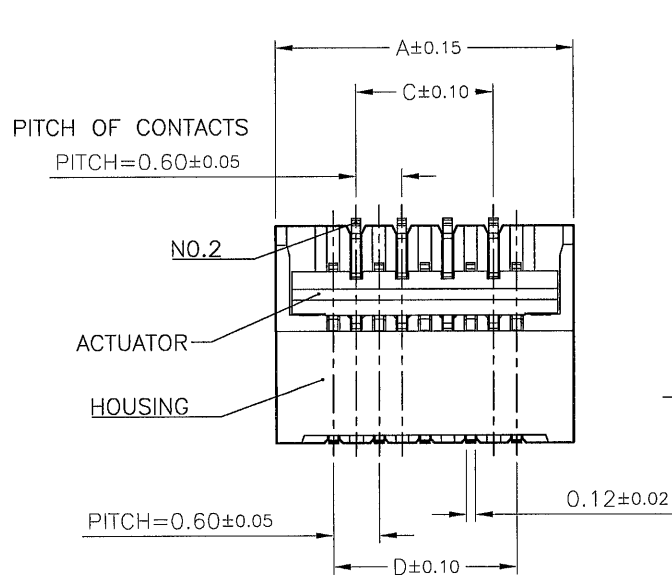
Specification

No. of Contacts	Width	Pcs / Reel	Reels / Carton	Cuft
07	16	4K / 1	9 / 1	1.5
09	16	4K / 1	9 / 1	1.5
11	16	4K / 1	9 / 1	1.5
13	16	4K / 1	9 / 1	1.5
15	16	4K / 1	9 / 1	1.5
17	16	4K / 1	9 / 1	1.5
19	16	4K / 1	9 / 1	1.5
21	24	4K / 1	7 / 1	1.5
23	24	4K / 1	7 / 1	1.5
25	24	4K / 1	7 / 1	1.5
27	24	4K / 1	7 / 1	1.5
29	24	4K / 1	7 / 1	1.5
31	24	4K / 1	7 / 1	1.5
33	24	4K / 1	7 / 1	1.5
35	24	4K / 1	7 / 1	1.5
37	24	4K / 1	7 / 1	1.5
39	24	4K / 1	7 / 1	1.5
41	24	4K / 1	7 / 1	1.5
43	24	4K / 1	7 / 1	1.5
45	24	4K / 1	7 / 1	1.5
51	32	4K / 1	6 / 1	1.5
61	32	4K / 1	6 / 1	1.5
71	44	4K / 1	5 / 1	1.5

Export Carton Layer : 5 Carton Size : 35 × 35 × 30cm

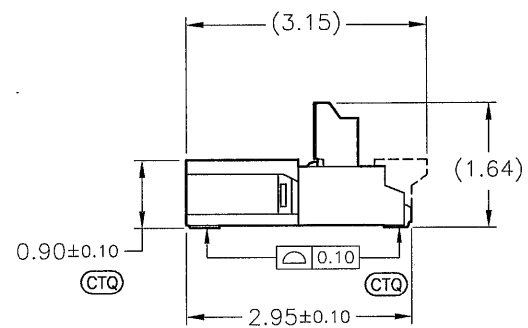
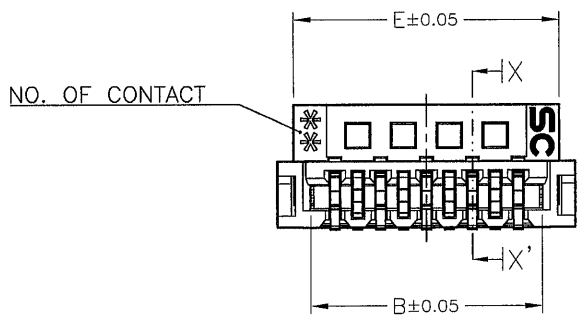
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REV.	ECO NO.	DATE	SIGN	DESCRIPTION
C	EC02014024	20140430	Rory	修改銅板尺寸
D	EC02014042	20140730	Candy	新增產品規格
E	EC02014062	20141106	Rory	修改LAYOUT及銅板



NOTE:

- MATERIAL:
HOUSING:LCP(UL94V-0)
ACTUATOR:LCP(UL94V-0)
TERMINAL:PHOSPHOR BRONZE
- PLATING:
TERMINAL:1u"~3u" GOLD FLASH(NICKEL BARRIER)
- PART NO.
BL309P --: xx S 3 1 - TA H O
SERIES: xx, S, 3, 1, TA, H, O
STANDARD HALOGEN FREE
PACKAGING-EMBOSSSED TAPE
RIGHT ANGLE-DUAL CONTACT TYPE
BACK-FLIP TYPE
1u"~3u" GOLD FLASH(NICKEL BARRIER)
NO. OF CONTACTS
- RATING:
OPERATING VOLTAGE:50V AC(rms)
CURRENT RATING:0.2A DC
OPERATING TEMPERATURE:-55°C ~ +85°C



NO.OF CONTACTS	PART NUMBER	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
07	BL309P-07S31	3.30	2.43	1.20	1.80	2.88
09	BL309P-09S31	3.90	3.03	1.80	2.40	3.48
11	BL309P-11S31	4.50	3.63	2.40	3.00	4.07
13	BL309P-13S31	5.10	4.23	3.00	3.60	4.67
15	BL309P-15S31	5.70	4.83	3.60	4.20	5.27
17	BL309P-17S31	6.30	5.43	4.20	4.80	5.87
19	BL309P-19S31	6.90	6.03	4.80	5.40	6.47
21	BL309P-21S31	7.50	6.63	5.40	6.00	7.07
23	BL309P-23S31	8.10	7.23	6.00	6.60	7.67
25	BL309P-25S31	8.70	7.83	6.60	7.20	8.27
27	BL309P-27S31	9.30	8.43	7.20	7.80	8.87
29	BL309P-29S31	9.90	9.03	7.80	8.40	9.47
31	BL309P-31S31	10.50	9.63	8.40	9.00	10.07
33	BL309P-33S31	11.10	10.23	9.00	9.60	10.67
35	BL309P-35S31	11.70	10.83	9.60	10.20	11.27
37	BL309P-37S31	12.30	11.43	10.20	10.80	11.87
39	BL309P-39S31	12.90	12.03	10.80	11.40	12.47
41	BL309P-41S31	13.50	12.63	11.40	12.00	13.07
43	BL309P-43S31	14.10	13.23	12.00	12.60	13.67
45	BL309P-45S31	14.70	13.83	12.60	13.20	14.27
51	BL309P-51S31	16.50	15.63	14.40	15.00	16.07
61	BL309P-61S31	19.50	18.63	17.40	18.00	19.08
71	BL309P-71S31	22.50	21.63	20.40	21.00	22.08

TOLERANCE UNLESS SPECIFIED	SHEET 1/5	DR. BY 陳彥勳 2014.11.7	MATERIAL SEE NOTE 1.
LINEAR	SCALE 10/1	CHK. BY 陳彥勳 2014.11.7	FINISH SEE NOTE 2.
ANGLE	UNIT mm	APP. BY 林進吉 2014.11.7	PART NO. SEE NOTE 3.

SCG TAIWAN SUNCAGEY INDUSTRIAL CO., LTD.

TITLE 0.3mm PITCH FPC CONN. (H=0.90)

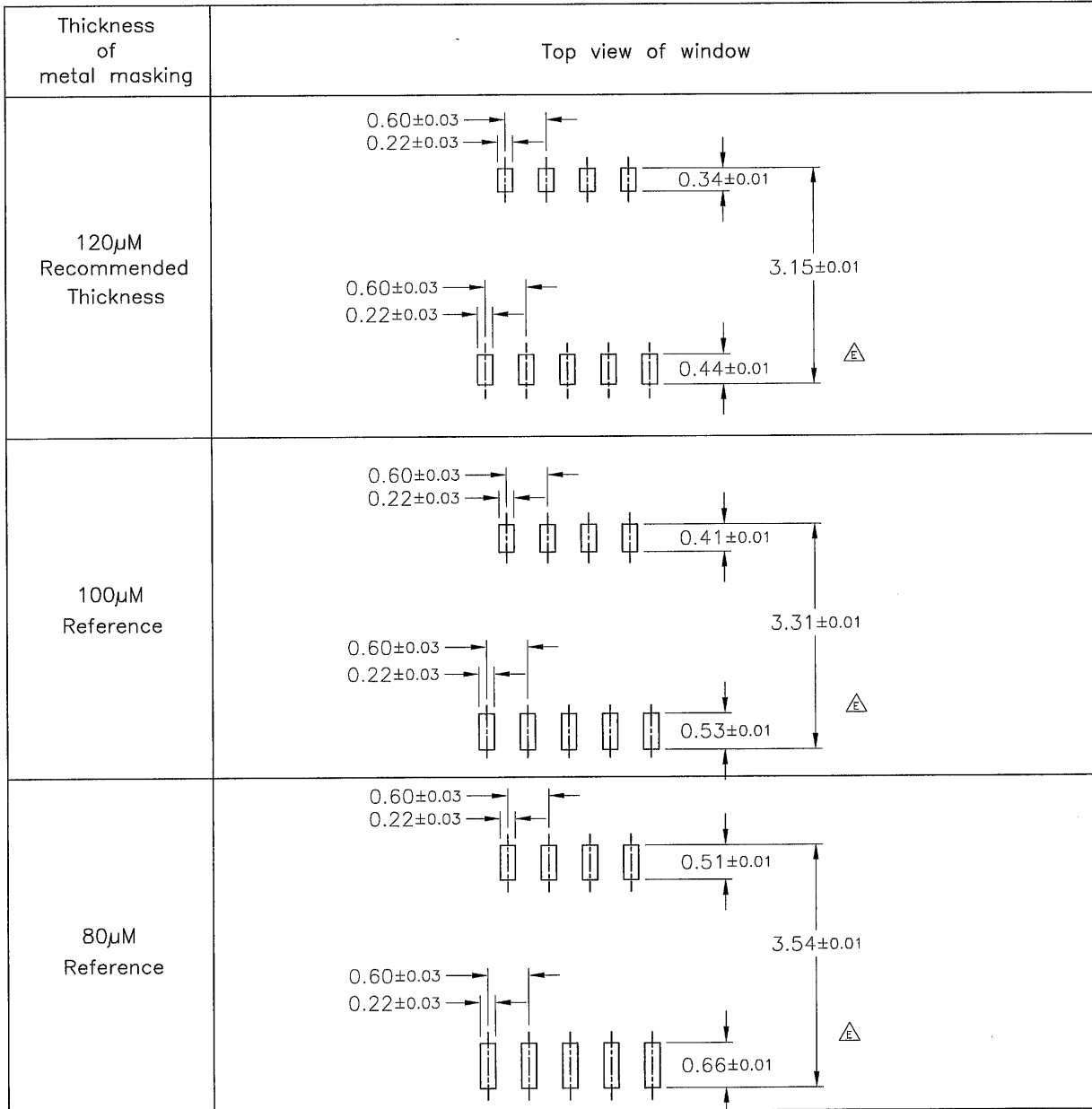
DWG NO. BL309P-xxS31-TAHO

本產品不含有環境管理物質規定之有害物質

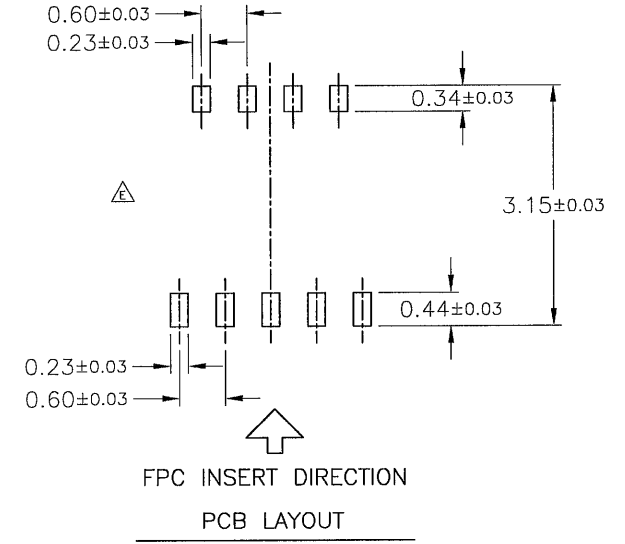
[MANAGEMENT REGULATIONS FOR THE RESTRICTIVELY-USED SUBSTANCES INCLUDED IN PARTS AND DEVICES]

HF

RECOMMENDED METAL MASK PATTERN



REV.	ECO NO.	DATE	SIGN	DESCRIPTION
C	ECO2014024	20140430	Rory	修改銅板尺寸
D	ECO2014042	20140730	Candy	新增產品規格
E	ECO2014062	20141106	Rory	修改LAYOUT及銅板



NO.OF CONTACTS	PART NUMBER	DIM. C	DIM. D
07	BL309P-07S31	1.20	1.80
09	BL309P-09S31	1.80	2.40
11	BL309P-11S31	2.40	3.00
13	BL309P-13S31	3.00	3.60
15	BL309P-15S31	3.60	4.20
17	BL309P-17S31	4.20	4.80
19	BL309P-19S31	4.80	5.40
21	BL309P-21S31	5.40	6.00
23	BL309P-23S31	6.00	6.60
25	BL309P-25S31	6.60	7.20
27	BL309P-27S31	7.20	7.80
29	BL309P-29S31	7.80	8.40
31	BL309P-31S31	8.40	9.00
33	BL309P-33S31	9.00	9.60
35	BL309P-35S31	9.60	10.20
37	BL309P-37S31	10.20	10.80
39	BL309P-39S31	10.80	11.40
41	BL309P-41S31	11.40	12.00
43	BL309P-43S31	12.00	12.60
45	BL309P-45S31	12.60	13.20
51	BL309P-51S31	14.40	15.00
61	BL309P-61S31	17.40	18.00
71	BL309P-71S31	20.40	21.00

TOLERANCE UNLESS SPECIFIED		SHEET 2/5	DR. BY 陳彥勳 2014.11.7	MATERIAL SEE NOTE 1.
LINEAR	ANGLE			
.X XX	X° XX	SCALE 10/1	CHK. BY 陳彥勳 2014.11.7	FINISH SEE NOTE 2.
.XX XX	.X° XX	UNIT mm	APP. BY 林進吉 2014.11.7	PART NO. SEE NOTE 3.
.XXX XX	.XX° XX			

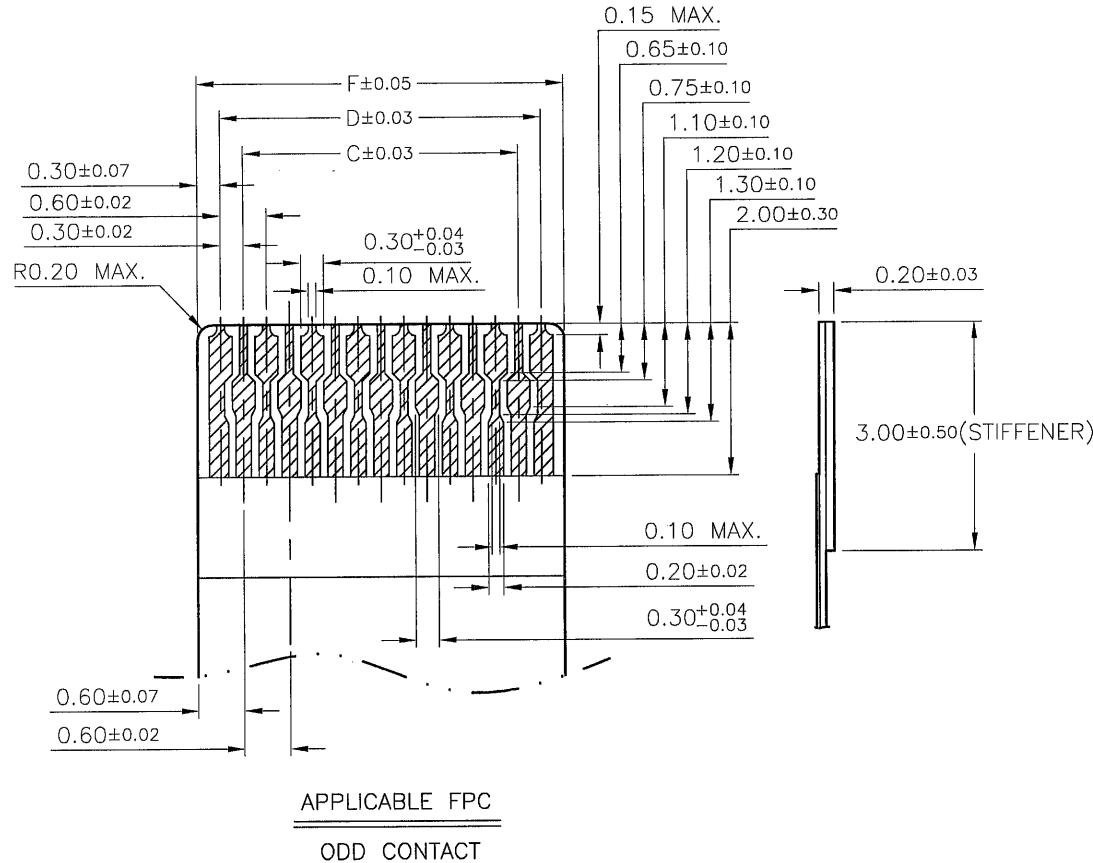
SCG TAIWAN SUNCAGEY INDUSTRIAL CO., LTD.

TITLE 0.3mm PITCH FPC CONN. (H=0.90)

DWG NO. BL309P-xxS31-TAHO

HF

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
C	ECO2014024	20140430	Rory	修改銅板尺寸
D	ECO2014042	20140730	Candy	新增產品規格
E	ECO2014062	20141106	Rory	修改LAYOUT及銅板



NO. OF CONTACTS	PART NUMBER	DIM. C	DIM. D	DIM. F
07	BL309P-07S31	1.20	1.80	2.40
09	BL309P-09S31	1.80	2.40	3.00
11	BL309P-11S31	2.40	3.00	3.60
13	BL309P-13S31	3.00	3.60	4.20
15	BL309P-15S31	3.60	4.20	4.80
17	BL309P-17S31	4.20	4.80	5.40
19	BL309P-19S31	4.80	5.40	6.00
21	BL309P-21S31	5.40	6.00	6.60
23	BL309P-23S31	6.00	6.60	7.20
25	BL309P-25S31	6.60	7.20	7.80
27	BL309P-27S31	7.20	7.80	8.40
29	BL309P-29S31	7.80	8.40	9.00
31	BL309P-31S31	8.40	9.00	9.60
33	BL309P-33S31	9.00	9.60	10.20
35	BL309P-35S31	9.60	10.20	10.80
37	BL309P-37S31	10.20	10.80	11.40
39	BL309P-39S31	10.80	11.40	12.00
41	BL309P-41S31	11.40	12.00	12.60
43	BL309P-43S31	12.00	12.60	13.20
45	BL309P-45S31	12.60	13.20	13.80
51	BL309P-51S31	14.40	15.00	15.60
61	BL309P-61S31	17.40	18.00	18.60
71	BL309P-71S31	20.40	21.00	21.60

TOLERANCE UNLESS SPECIFIED		SHEET 3/5	DR. BY 陳彥勳 2014.11.7	MATERIAL SEE NOTE 1.
LINEAR	ANGLE			
.X XX	X° XX			
.XX XX	.X° XX			
.XXX XX	.XX° XX	SCALE 10/1	CHK. BY 陳彥勳 2014.11.7	FINISH SEE NOTE 2.
		UNIT mm	APP. BY 林進吉 2014.11.7	PART NO. SEE NOTE 3.

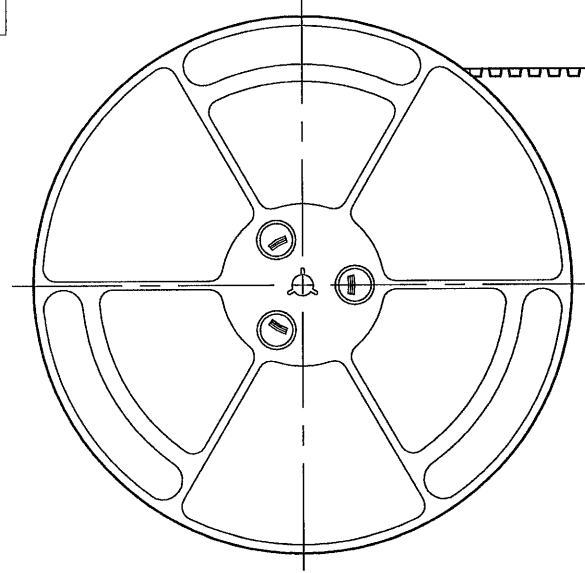
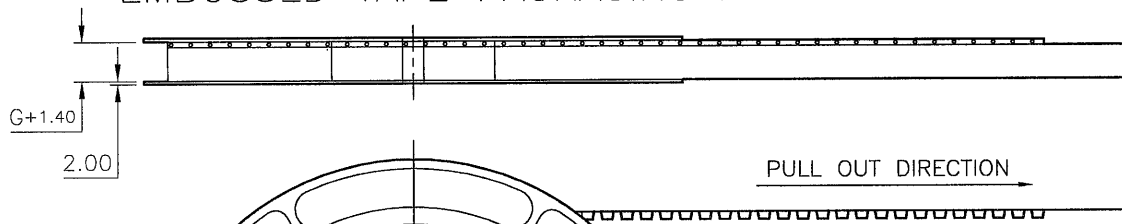
SCG TAIWAN SUNCAGEY INDUSTRIAL CO., LTD.

TITLE 0.3mm PITCH FPC CONN. (H=0.90)

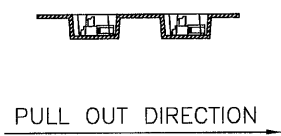
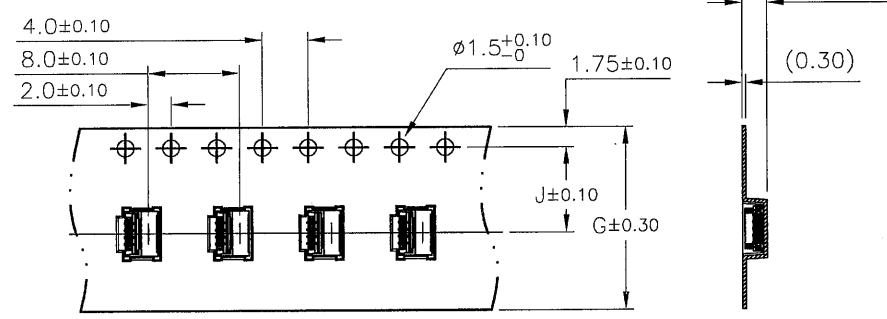
DWG NO. BL309P-xxS31-TAHO

HF

EMBOSSED TAPE PACKAGING BL309P SERIES



Tape width 16 and 24 mm

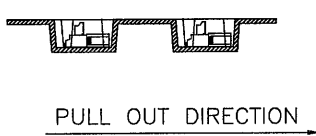
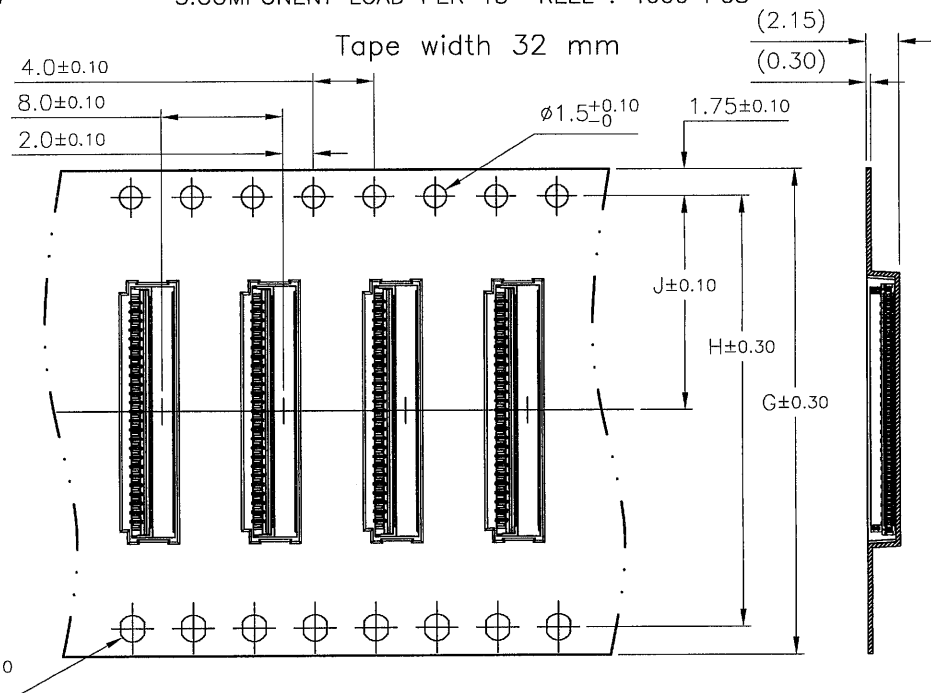


PULL OUT DIRECTION

NOTE:

- 1.10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE ±0.2mm
- 2.CARRIER CAMBER IS WITHIN 1 mm IN 250mm.
- 3.MATERIAL : BLACK CONDUCTIVE POLYSTYRENE ALLOY.
- 4.THICKNESS : 0.3±0.05mm.
- 5.COMPONENT LOAD PER 13" REEL : 4000 PCS

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
C	ECO2014024	20140430	Rory	修改銅板尺寸
D	ECO2014042	20140730	Candy	新增產品規格
E	ECO2014062	20141106	Rory	修改LAYOUT及銅板



PULL OUT DIRECTION

NO.OF CONTACTS	PART NUMBER	DIM. G	DIM. H	DIM. J
07	BL309P-07S31	16	—	7.5
19	BL309P-19S31			
21	BL309P-21S31	24	—	11.5
45	BL309P-45S31			
51	BL309P-51S31	32	28.4	14.2
61	BL309P-61S31			
71	BL309P-71S31	44	40.4	20.2

TOLERANCE UNLESS SPECIFIED	SHEET 4/5	DR. BY 陳彥勳 2014.11.7	MATERIAL SEE NOTE 1.
LINEAR	SCALE 10/1	CHK. BY 陳彥勳 2014.11.7	FINISH SEE NOTE 2.
ANGLE	UNIT mm	APP. BY 林進吉 2014.11.7	PART NO. SEE NOTE 3.

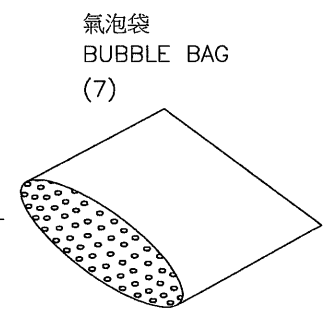
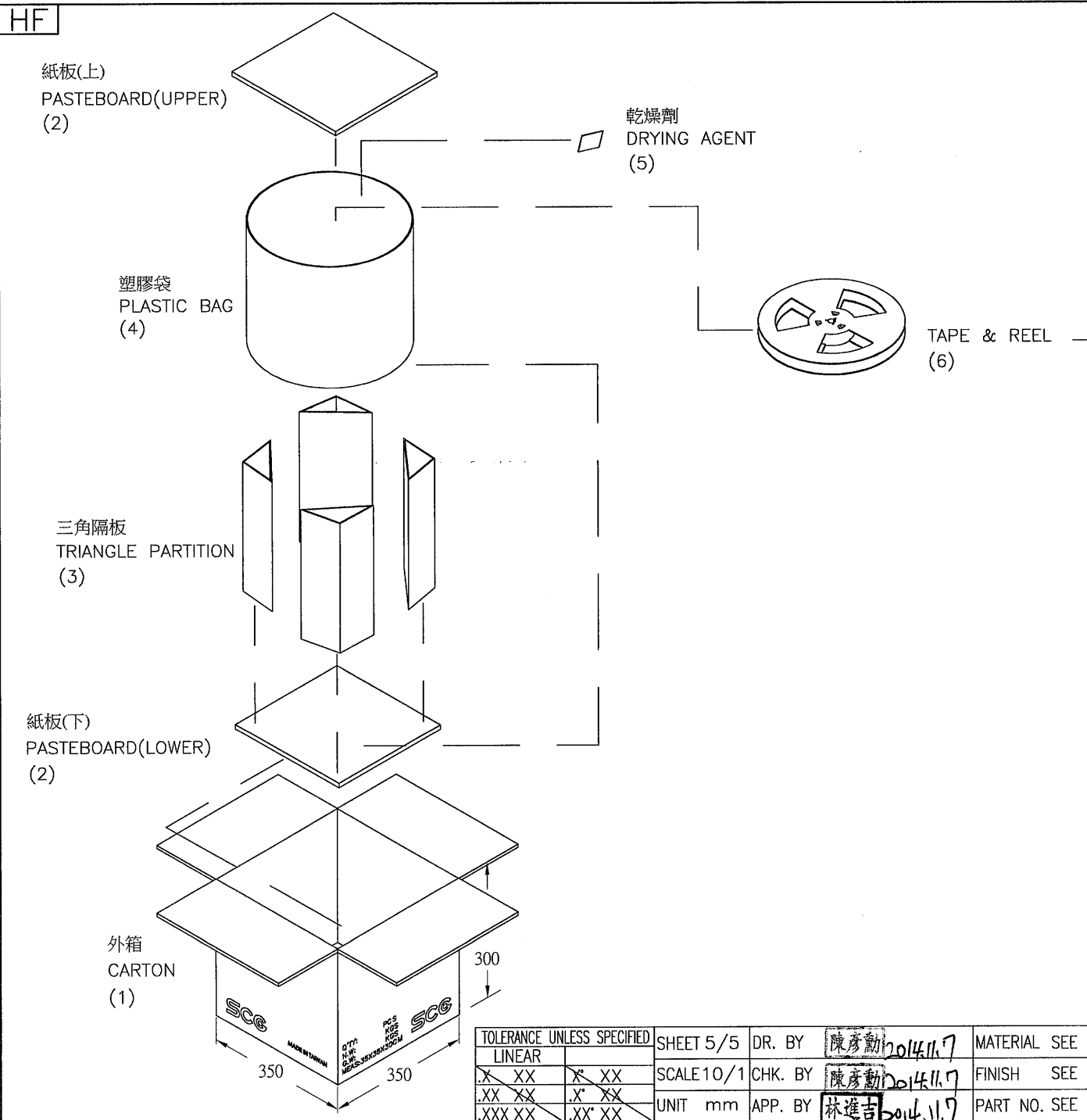
SCG TAIWAN SUNCAGEY INDUSTRIAL CO., LTD.

TITLE 0.3mm PITCH FPC CONN. (H=0.90)

DWG NO. BL309P-xxS31-TAHO

HF

REV.	ECO NO.	DATE	SIGN	DESCRIPTION
C	ECO2014024	20140430	Rory	修改銅板尺寸
D	ECO2014042	20140730	Candy	新增產品規格
E	ECO2014062	20141106	Rory	修改LAYOUT及銅板



NO.OF CONTACTS	(1) 外箱	(2) 紙板	(3) 三角隔板	(4) 塑膠袋	(5) 乾燥劑	(6) 塑膠圓盤	(7) 氣泡袋
07~19	1	2	4	1	1	9	9
21~45	1	2	4	1	1	7	7
51~61	1	2	4	1	1	6	6
71	1	2	4	1	1	5	5

TOLERANCE UNLESS SPECIFIED	SHEET 5/5	DR. BY 陳彥勳 2014.11.7	MATERIAL SEE NOTE 1.	TAIWAN SUNCAGEY INDUSTRIAL CO., LTD.
LINEAR	SCALE 10/1	CHK. BY 陳彥勳 2014.11.7	FINISH SEE NOTE 2.	
.X XX X* XX	UNIT mm	APP. BY 林進吉 2014.11.7	PART NO. SEE NOTE 3.	
.XX XX .X* XX				
.XXX XX .XX* XX				TITLE 0.3mm PITCH FPC CONN. (H=0.90) DWG NO. BL309P-xxS31-TAHO

本產品不含有環境管理物質規定之有害物質

[MANAGEMENT REGULATIONS FOR THE RESTRICTIVELY-USED SUBSTANCES INCLUDED IN PARTS AND DEVICES]