



喬訊電子工業股份有限公司
CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.
7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,
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Certificate No: TS 622434 FM 587490

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Type Document	Product Specification	Revised /Edition	M
Date Issued	2010/03/05	Data Revised	2022/7/21
Subject: JS-ID2543BGC/SBGC JS-ID2543BGC2/SBGC2 JS-1200 JS-1200R JS-1200D Pitch: 2.54mm DIP & SMT Series Flat Cable to Board Connector			Issued By: Engineering Dept.

*This specification is referred to 2.54 mm DIP & SMT series
Flat Cable to board connector.*

*本規格書內容係提供 2.54 mm DIP & SMT 簡易牛角系列產品相關參考，
其用途為排線端相接於電路板端連接器*

-INDEX-

- 1.0 Product Name/Part Number & Drawing Number. (產品名稱 / 產品型號及圖面型號)
- 2.0 Construction/Dimensions/Material & Surface Finish. (材質以及表面鍍層)
- 3.0 Characteristic. (產品特性)
- 4.0 Specimen. (樣本圖示)
- 5.0 Applicable Standards. (適用規範)
- 6.0 Mechanical Performance. (機械性能)
- 7.0 Electrical Performance. (電氣性能)
- 8.0 Environmental Performance. (環境性能)
- 9.0 Insertion Force (I.F.) & Withdrawal Force (W.F.) for user reference (嵌入力與拔出力規格值)
- 10.0 Remark (備註).



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REV.(版本)	Revision Record (改版變更原因)	Date(日期)	ECN No
B	增加HTN(6T/66) 高溫無鹵塑料，以及區隔操作溫度 -25C~85C；-40C~105C	2010/12/08	EC2010-12-004
C	1.原(6TNH)Solder Temperature (焊錫溫度)：260 ± 5°C 修改為245 ± 5°C， 2.增加耐久性 及 溫升 3.刪除硫化氫 4.修正(EIA-364) 參考規範 5 依安規認證增列額定電壓 6. 修改適用電線Flat Cable規格	2011/10/03	EC2011-10-002
D	IDC Socket 區分為二 Dual Beam Contacts 料號 JS-ID2543BG；JS-ID2543SBG Single Beam Contacts 料號 JS-ID2543BGC；JS-ID2543SBGC	2011/12/05	EC2010-12-003
E	新增料號 JS-ID2543BGC2；JS-ID2543SBGC2 以及修改 Withdrawal Force :Per Pin 0.03kgx CKT	2012/06/21	EC2012-06-010
F	增列電鍍選項 G；G1；G2	2012/06/26	EC2012-06-012
G	IDC Socket 雙點接觸料號 JS-ID2543BGX；JS-ID2543SBGX 取消	2012/07/25	EC2012-07-013
H	增列JS-ID2543BGX料號	2012/10/02	EC2012-10-002
I	JS-1200D-XX(XX) 塑膠材質，變更為基本款Nylon 6T，選擇款Nylon 9T	2012/12/05	EC2012-12-005
J	1 增訂Wave Peak Soldering In- Process Temperature Profile 2.修訂Solder Ability 附註 Tin Plated：95% / Gold Plated：75%	2013/12/05	EC2013/12/005
K	1. 增訂 Finish(表面鍍層)G0 選項，及修改 G，G1，G2 鍍層材質定義 2.參照 Operating Temp 增訂 Cold 耐寒試驗(Low Temperature) 及增訂 Thermal Aging 高溫老化試驗 Temperature(溫度)： 105±2°C	2014/05/27	EC2014/05/027
L	修訂8.10.1 項 Temperature Profile	2015/02/26	EC2015-02-026
M	修訂1.0 Part number XXx2為XX，修訂9.1 Circuits XXx2為XX	2022/07/21	EC2022-07-001



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1.0 Product Name/Part Number & Drawing Number(產品名稱 / 產品型號及圖面型號): Note: (xx) The number of the circuits

Product Name(產品名稱)		Part Number(零件型號)	Drawing Number(圖面型號)	
IDC Socket	JS-ID2543BGXC2 / SBGXC2 	Single Beam Contact 單接觸點	JS-ID2543BGXC2-XX	
	JS-ID2543BGXC / SBGXC 	Dual Beam Contact 雙接觸點	JS-ID2543BGXC-XX	
		JS-ID2543BGX / SBGX 	Single Beam Contact 單接觸點	JS-ID2543SBGXC2-XX
	Dual Beam Contact 雙接觸點		JS-ID2543SBGXC-XX	
	Box Header	DIP Type	Straight (直立式)	JS-1200-XXXX / JS-1200-XX(6T) / JS-1200-XX(6TNH)
			Right Angle (臥式)	JS-1200R-XXXX / JS-1200R-XX(6T) / JS-1200R-XX(6TNH)
SMT Type		Straight (直立式)	JS-1200D-XXXX / JS-1200D-XX(9T)	

2.0 Construction/Dimensions/Material & Surface Finish(材質以及表面鍍層):

Part Name(零件名稱)		Material(材質)	Surface Finish(表面鍍層)
IDC Socket (電線端刺破型連接器)	Contacts (導體)	JS-ID2543BGXXX ; JS-ID2543SBGXXX	Tin Plated over all , Gold on Contact Area
		JS-ID2543BG0XX ; JS-ID2543SBG0XX	Tin Plated over all , Gold 15u" on Contact
		JS-ID2543BG1XX ; JS-ID2543SBG1XX	Gold Flash over all
		JS-ID2543BG2XX ; JS-ID2543SBG2XX	Gold Flash over all ,Gold 15u" on Contact
Base (膠座)		PBT+30%Glass Fiber	UL 94V-0
Box Header (簡易牛角)	Square Pin (方型導體)		Brass
	Base (膠座)	Nylon 9T	UL 94V-0
		Nylon 6T	
		Nylon 6T/66 (Halogen Free)	
PBT			

3.0 Characteristic(產品特性):

Item(項目)	Standard(標準規範)
3.1 額定電流 Rated Current	1A AC/DC With AWG #28 is applied(相對適用於美國電線規格 UL2651 AWG #28)
3.2 額定電流 Rated Voltage	250V AC/DC



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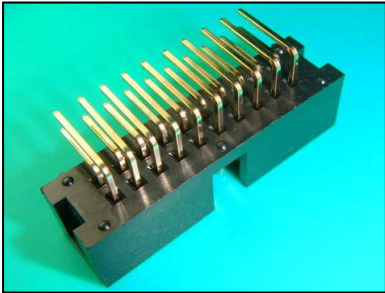
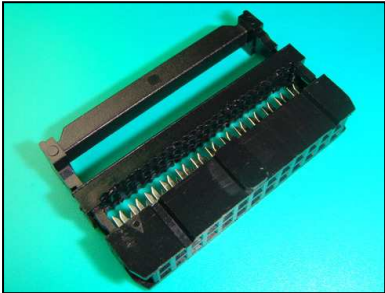
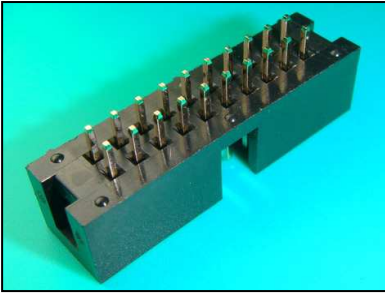
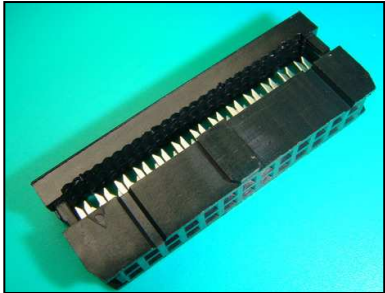
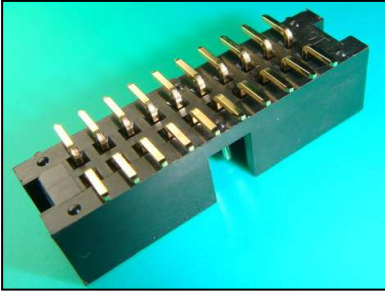
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3.3	Ambient Temperature Range 環境與操作溫度範圍	(操作使用溫度與濕度範圍) Operating Temp.: (Insulator PBT: -25~+85) ; 85% R.H. Max (Insulator HTN 6T/66 or PA9T : -40~+105) ; 85% R.H. Max Including 30°C Terminal Temperature Rise at rated Current , (包括定額電流內, 端子所產生 30°C 以下溫昇)	
3.4	Applicable Wire 適用電線	3.4.1	排線型號 Conductor Construction Size : Flat Cable AWG #28 (UL2651)
		3.4.2	排線絕緣體外徑 Flat Cable Insulation O.D.: 0.90±0.10mm
3.5	Storage of Package 包裝未拆封之保存	Temperature and Humidity Condition 溫濕度條件	Temperature 溫度 : -10°C ~+40°C Percentage Humidity 相對濕度 : 70 % Max
		Term 保存期限	1 Year
3.6	Floor Life 拆封後使用期限	3 Months	

Note: 適用電路板厚度 **Applicable Printed Circuit Board Thickness: 1.6 mm**

4.0 Specimen(樣本圖示) :

Part Name / Part Number/ Picture or Photograph 零件名稱 / 零件型號 / 樣本圖示			
Box Header DIP Type Right Angle JS-1200R		IDC Socket JS-ID2543SBGX CX Three Piece Type	
Box Header DIP Type Straight JS-1200		IDC Socket JS-ID2543BGX CX Two Piece Type	
Box Header SMT Type Straight JS-1200D			



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5.0 Applicable Standards(適用規範):

ANSI/EIA 364 ; EIA/ECA 364 Testing method for electrical connectors.

電子連接器，所適用之 ANSI/EIA 364 ; EIA/ECA 364 測試規範

6.0 Mechanical Performance(機械性能):

Item(項目)	Test Condition(測試條件)	Requirement (規格)
6.1 Insertion & Withdrawal Force 嵌入力與拔出力	Insert and withdrawal with connectors at the speed rate of 25.4±3 mm /minute. 連接器兩端勘合，以每一分鐘 25.4 ± 3 mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)	Refer to 9.1 Table1. 參照第 9.1 項 表格 1
6.2 Square Pin Retention Force(in Base) 方型導體 與膠座之間保持力	Axial pullout force on the square pin in the base at the speed rate of 25.4 ±3 mm per minute. 對於已經存在於膠座當中方型導體，施以每一分鐘 25.4 ±3mm 速率之軸向拔出力 (EIA/ECA 364-29C)	單一接觸點最小容許值 Per Contact 0.8kgf/Min.

7.0 Electrical Performance(電氣性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.1 (Low –Signal Level) Contact Resistance (低階信號) 接觸阻抗	A maximum voltage of 20mV and a maximum current of 100mA are applied to the mate connector. 以組合狀態下連接器，於其兩端施以最大測試電壓 20mV 以及最大測試電流 100mA (EIA/ECA 364-23C) (Does not include wire resistance 不包含電線阻抗)	Contact Resistance: 20 milliohms Max. 最大容許值. 20 毫歐姆
7.2 Insulation Resistance 絕緣阻抗	Apply 500V D/C for 1 minute between adjacent contacts to measure the insulation resistance. 以相鄰兩接觸導體，於一分鐘時間內施予 500V D/C 電壓，並量測其間絕緣阻抗值 (EIA 364-21C)	Insulation Resistance: Initial1000 megohms Min 最初容許值. 1000 兆歐姆
7.3 Withstanding Voltage 耐電壓	Apply 1000V A/C (rms) for 1 minute and the leakage current shall not exceed 0.5mA to the adjacent terminal and ground of the mate connectors. 以組合狀態下連接器，於其相鄰兩導體末端各施以電壓 1000V A/C (實效值) 時間 1 分鐘，且漏電流必須小於 0.5mA (毫安培) (EIA 364-20C)	No breakdown or flashover. 無損毀或者產生火花

8.0 Environmental Performance(環境性能) :

Item(項目)	Test Condition(測試條件)	Requirement (規格)
8.1 Durability 耐久性	Mate Connectors up 50 Cycles at a Maximun rate of 10 cycles Per minute prior to environmental test 以組合狀態下連接器且未經環境測試，依每分鐘內進行 10 次嵌入與拔出之最大速率，連續 50 次嵌入與拔出往返測試 (EIA/ECA 364-09C)	(After the test) Contact resistance : 30 mΩ Max 經耐久性試驗後接觸阻抗: 最大容許值 30 毫歐姆



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8.2	Temperature Rise (Via Current Cycling) 溫昇 (經由電流循環操作)	Mate connector . measure the temperature rise of contact when the maximum rated current is passed 以組合狀態下連接器，通過最大容許電流 量測其導體溫度上昇值 (EIA 364-70B Conditions 1 . Method 1)	Mate connectors Temperature Rise: +30°C/Max. 組合狀態下之連接器溫度上昇 最大容許值 +30°C	
8.3	Vibration 耐振動	A mated connector shall be mounted on a printed Circuit board and subjected to a vibration test of the following conditions. During the test, test current continuity shall be checked. After the test, contact resistance shall be measured.以組合狀態下連接器焊接於電路板作為試驗樣品,依照隨附如下規格要求,進行耐振動試驗，試驗過程中確認是否產生不連續電流(斷電)現象，並於試驗過後量測其接觸阻抗。(EIA/ECA 364-28E-Condition I) Frequency(頻率) : 10~55~10 Hz/minute. Amplitude (振幅) : 1.5 mm P-P Direction (方向) :1. Axis of up and down.上下軸向(Y 軸) 2. Axis of right the left. 左右軸向(X 軸) 3. Axis of front and back.前後軸向(Z 軸) Period(週期) : 2 hours for each direction.(每一個軸向持續 2 小時)	Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test) Contact Resistance: 30 milliohms Max. 經耐振動試驗後接觸阻抗 最大容許值 30 毫歐姆	
8.4	Humidity (Steady State) 恆溫恆濕	A mated connector shall be placed in a humidity chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured. (EIA 364-31B Conditions II . Method A) 以組合狀態下連接器放置於恆定溫度與濕度的空間,依照隨附如下規格要求,進行恆溫恆濕試驗，經試驗過後將樣品置於室溫 1~2 小時,再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。 Temperature(溫度) : 40±2°C. Relative Humidity(相對濕度) : 90%~95% (RH). Period(週期) : 96 hours continuously. (持續 96 小時)	(After the test) Contact Resistance: 30 milliohms Max. 經恆溫恆濕試驗後接觸阻抗 最大容許值. 30 毫歐姆	
			(After the test) Insulation Resistance : 500 Megohms Min. 經恆溫恆濕試驗後絕緣阻抗 最小容許值. 500 兆歐姆	
			經恆溫恆濕試驗後耐電壓 (After the test) Withstanding Voltage: 1000V A/C for 1 minute	



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Item(項目)		Test Condition(測試條件)		Requirement(規格)
8.5	Thermal Shock 冷熱衝擊	<p>A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured. 以組合狀態下連接器作為試驗樣品, 依照隨附如下規格要求, 進行冷熱衝擊試驗, 經試驗過後將樣品置於室溫 1~2 小時, 再量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。(EIA/ECA 364-32D Conditions I. Method A)</p> <p>One Cycle Consists Of: -55 +0/-3°C for 30 minutes. → Room Temp.5 minutes 85+3/-0°C for 30 minutes. → Room Temp.5 minutes</p> <p>Total Cycles: 5 Cycles. 以-55+0/-3°C 溫度持續 30 分鐘, 經室溫 5 分鐘, 而後再以 85+3/-0°C 溫度持續 30 分鐘, 再經室溫 5 分鐘, 構成一次冷熱循環, 總計循環次數 5 次。</p>		Same as paragraph 8.4 同 8.4 章節
8.6	Thermal Aging 高溫老化試驗	<p>A mated connector shall be placed in a heat oven of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於加熱烤箱當中, 依照隨附如下規格要求, 進行高溫老化試驗, 經試驗過後將樣品置於室溫 1~2 小時, 再量測其接觸阻抗。(EIA 364-17B Conditions 3 & 4 .Method A)</p> <p>Temperature(溫度): 85±2°C. (Insulator PBT) 105±2°C. (Insulator HTN 6T/66 or PA9T)</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>		<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test)</p> <p>Contact Resistance : 30 milliohms Max. . 經高溫老化試驗後接觸阻抗 最大容許值. 30 毫歐姆</p>
8.7	Salt Spray 鹽水噴霧	<p>A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance. 以組合狀態下連接器作為試驗樣品, 依照隨附如下規格要求, 進行鹽水噴霧試驗 , 試驗過後將樣品用清水沖洗並經過自然風乾 , 而後量測其接觸阻抗。(EIA 364-26B Conditions B) Density(鹽水密度): 5 % in weight. Temperature(溫度): 35±2°C. Period(週期): 48 hours</p>		<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test)</p> <p>Contact Resistance: 30 milliohms Max. 經鹽水噴霧試驗後接觸阻抗 最大容許值. 30 毫歐姆</p>



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.8 Cold 耐寒試驗 (Low Temperature)	<p>A mated connector shall be placed in a cold chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於低溫空間內，依照隨附如下規格要求，進行耐寒試驗，經試驗過後將樣品置於室溫 1~2 小時，再量測其接觸阻抗。(EIA 364-59A Condition D ; Condition 3or4)</p> <p>Temperature(溫度) : Nylon 6T & : -40°C±3°C ; PBT:-25°C±3°C</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>	<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test) Contact Resistance : 30 milliohms Max. . 經耐寒試驗後接觸阻抗最大容許值. 30 毫歐姆</p>
8.9 Solder Ability 焊錫性	<p>Fluxed soldering section of header shall be dipped in solder of the following conditions. 將連接器 pin 針基板嵌入端，接觸熱溶狀錫料，依照隨附如下規格要求，進行焊錫性試驗 (EIA 364-52B)</p> <p>Solder Temperature (焊錫溫度) : 245 ± 5°C .</p> <p>Immersion Period (沉浸週期) : 3 ±0.5 Seconds</p> <p>(DIP 操作方式) : 零件焊錫位置，距離導體末端 1.5mm</p> <p>DIP Type Method : 1.5mm from square pin tip</p> <p>(SMT 操作方式) : 零件焊錫位置，距離導體末端 0.5mm</p> <p>SMT Type Method : 0.5mm from square pin tip</p>	<p>Solder entirely (Tin Plated : 95% / Gold Plated : 75%) of immersed area must show no voids or pinholes. 焊料覆蓋面積必須達到 (鍍錫 95% / 鍍金 75%)，而且不能產生氣孔或空隙</p>
8.10 Resistance to Soldering Heat 焊錫耐熱性	<p>By Wave soldering 波焊適用溫度範圍</p> <p>Resistance to soldering heat when using Nylon 6T-66 使用 Nylon 6T-66 塑料能夠承受焊錫耐熱範圍： Refer to Temperature Profile 請參考 8.10.1-1 溫度曲線圖</p> <p>By Wave soldering 波焊適用溫度範圍</p> <p>Resistance to soldering heat when using PBT 使用 PBT 塑料能夠承受焊錫耐熱範圍： Refer to temperature profile 請參考 8.10.1-2 溫度曲線圖</p> <p>By convection reflow soldering 迴流焊適用溫度範圍： Refer to temperature profile 請參考 8.10.1-3 溫度曲線圖 (IPC/JEDEC J-STD-020D.1)</p>	<p>No deformation or damage. 不可有變形或損壞</p>



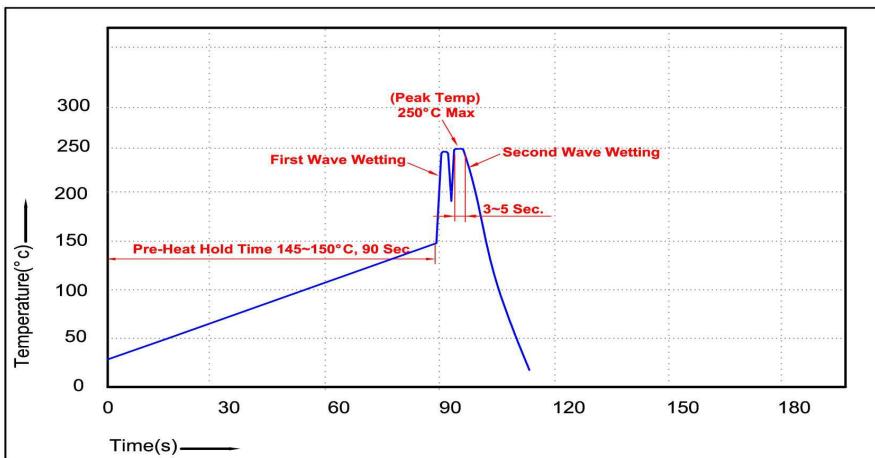
Type Document	Product Specification	Revised /Edition	M
Date Issued	2010/03/05	Data Revised	2022/07/21
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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.10 Resistance to Soldering Heat 焊錫耐熱性	by soldering iron 手工烙鐵焊錫適用溫度範圍： 350 ± 5°C 5±0.5 Seconds. (DIP 操作方式)：零件焊錫位置，距離導體末端 1.5mm DIP Type Method：1.5mm from square pin tip (SMT 操作方式)：零件焊錫位置，距離導體末端 0.5mm SMT Type Method：0.5mm from square pin tip (EIA/ECA 364-56C Procedure 3. Conditions A)	No deformation or damage. 不可有變形或損壞

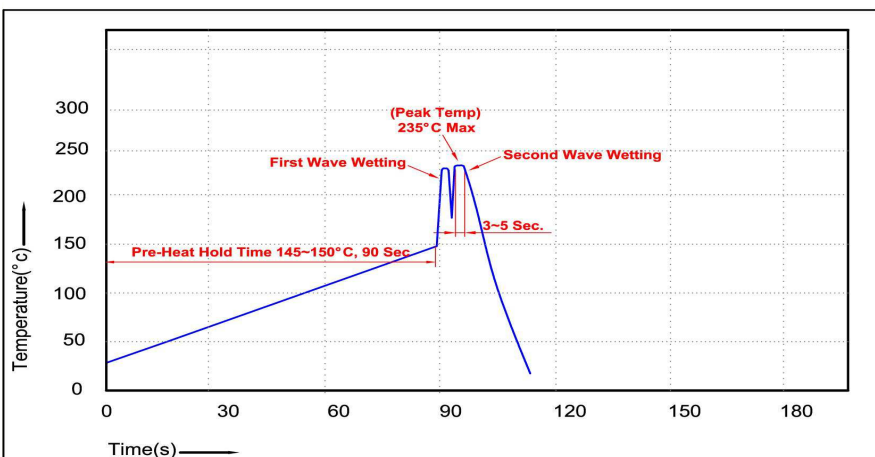
Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試依照客戶需求

8.10.1 Temperature Profile(溫度曲線圖)：

8.10.1-1 Wave Peak Soldering In- General Process 波焊一般制程



8.10.1-2 Wave Peak Soldering In- General Process 波焊一般制程





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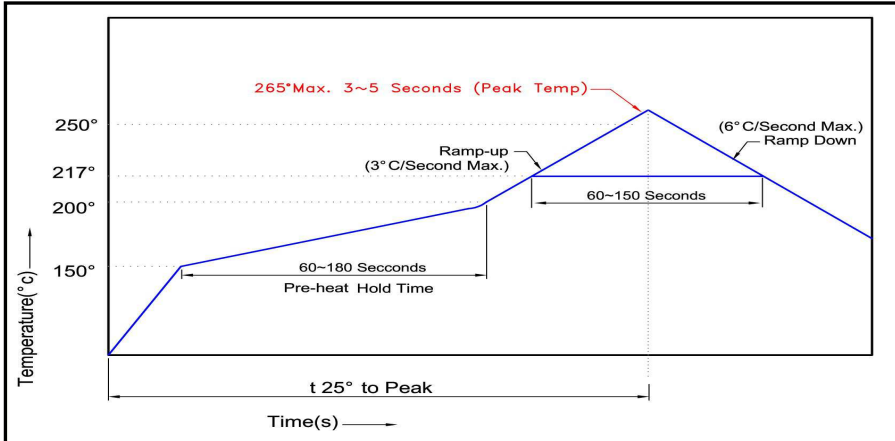


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8.10.1-3 Convection -Reflow Soldering In- lead-Free Process 迴流焊無鉛制程



9.0 Tables & Attachments

9.1 Table 1. Insertion Force (I.F.) & Withdrawal Force (W.F.) for user reference:

No. of Circuits 極數	AT INITIAL 首次嵌入與拔出(初始值)		AT 50 TH 50 次嵌入與拔出之後	No. of Circuits 極數	AT INITIAL 首次嵌入與拔出(初始值)		AT 50 TH 50 次嵌入與拔出之後
	I.F. (MAX) 嵌入力	W.F. (MIN) 拔出力	W.F. (MIN) 拔出力		I.F. (MAX) 嵌入力	W.F. (MIN) 拔出力	W.F. (MIN) 拔出力
	6	1.80	0.18			30	9.00
8	2.40	0.24		34	10.20	1.02	
10	3.00	0.30		40	12.00	1.20	
12	3.60	0.36		42	13.20	1.32	
14	4.20	0.42		50	15.00	1.50	
16	4.80	0.48		60	18.00	1.80	
20	6.00	0.60		64	19.20	1.92	
24	6.60	0.66					
26	7.80	0.78					

Unit : Kg/f

10.0 Remark(備註) : Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有關規格書內容經變更或改版，如未能夠及時發佈與通知，煩請連絡我司業務人員以提供產品最新資訊

Reviewed: Tom Shih **Approved:** Erin Chou **Verified:** Eddie