



Type Document	Product Specification	Revised /Edition	I
Date Issued	2009/07/01	Data Revised	2015/02/17
Subject : JS-ID2005SCG JS-ID2005CG JS-1300 JS-1300R JS-1300D Pitch: 2.00mm IDC Socket & Box Header Series Flat Cable to Board Connector			Issued By: Engineering Dept.

*This specification is referred to 2.00mm IDC Socket & Box Header series Flat Cable to board connector.*

*本規格書內容係提供 2.00 mm 電線端刺破型連接器及排針系列產品相關參考，其用途為排線端相接於電路板端連接器*

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REV. (版本)	Revision Record (改版變更原因)	Date(日期)	ECN No
C	增加中文敘述 以及增加版本變更註記欄	2010/02/12	EC2010-02-011
D	Box Header 增加 6 Pin 產品	2010/11/09	EC2010-11-001
E	1.增加溫升 2.刪除硫化氫 3.修正(EIA-364) 參考規範 4. 依安規認證增列額定電壓 5.Box Header 增列 6T為基本款塑料，9T為選擇款塑料 6. 修改Flat Cable UL 2651AWG #28	2012/12/05	EC2012-12-005
F	1.增列塑料 PBT 選項 2 增列 Square Pin with Holding Construction(增加拔出力方型導體)	2012/12/19	EC2012/12/019
G	1.增訂Wave Peak Soldering In- Process Temperature Profile 2.修訂Solder Ability 附註Tin Plated : 95% / Gold Plated : 75% 3.修訂 6.1 項 Withdrawal Force : 0.03 kg/f Min 4.修訂 Contact Resistance30 milliohms Max.5.修訂 Withstanding Voltage500V A/C	2013/12/13	EC2013/12/013
H	1.Box Header 基本款塑料變更為9T 2. 增訂3.5項Storage of Package以及 3.6 項Floor Life	2014/05/07	EC2014/05/007
I	1.修訂8.9.1 項 Temperature Profile / 2增訂8.7 項Cold耐寒試驗	2015/02/17	EC2015-02-017



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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	Terminated height 8.5mm (Two Piece)	JS-ID2005C1XX-XX / JS-ID2005C1GX-XX JS-ID2005C1G1-XX / JS-ID2005C1G2-XX	
	Terminated height 11.4mm (Three Piece)	JS-ID2005SC1XX-XX / JS-ID2005SC1GX-XX JS-ID2005SC1G1-XX / JS-ID2005SC1G2-XX	
Box Header	SMT Type	Straight(直立式)	JS-1300D-XXXX
	DIP Type	Straight(直立式)	JS-1300-XXXX / JS-1300-XX(PBT)
		Right Angle(臥式)	JS-1300R-XXXX / JS-1300R-XX(PBT)

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)	Phosphor Bronze	Tin-Plated , Nickel under all over Select Gold in Contact Area , Select Tin on Solder Tail , Nickel under all over Gold-Plated(<0.8u") , Nickel under all over Gold-Plated(15u") , Nickel under all over		
		Base(膠座)	PBT	UL 94V-0	
		Box Header (簡易牛角)	Square Pin(方型導體)	Brass	Gold -Plated
			Base(膠座)	Nylon 9T	UL 94V-0
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
3.2 額定電壓 Rated Voltage	250V AC/DC
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 Nylon 9T: -40℃~+105℃) ; 85% R.H. Max (Insulator Nylon 66 V-2 : -25℃~+85℃) ; 85% R.H. Max Including 30℃ Terminal Temperature Rise at rated Current , (包括定額電流內, 端子所產生 30℃以下溫昇)
3.4 Applicable Wire 適用電線	3.4.1 (併排線型號) Conductor Construction Size: Flat Cable UL2651 AWG #28
	3.4.2 (電線絕緣材質外徑) Wire Insulation O.D.: 0.85mm(Max)
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℃~+40℃ Percentage Humidity 相對濕度 : 70 % Max
Term 保存期限	Socket & Box Header 1 Year
3.6 Floor Life 拆封後使用期限	Socket & Box Header (DIP Type) 3 Months



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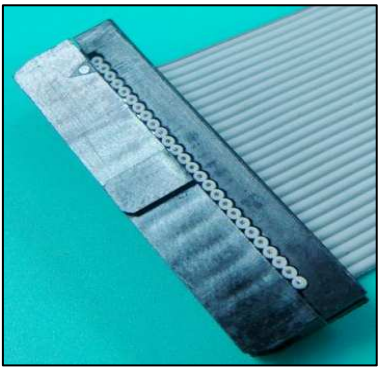
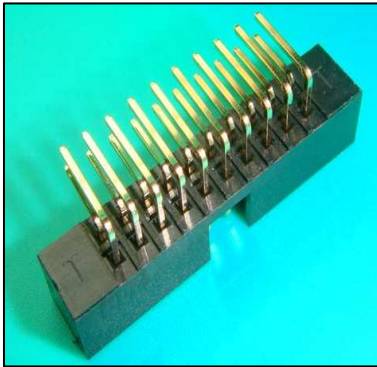
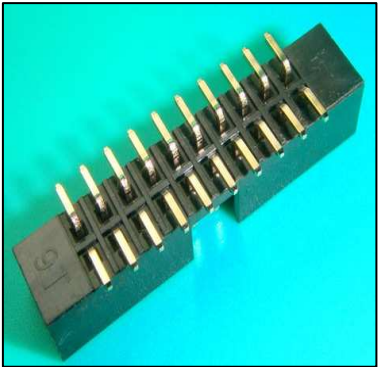
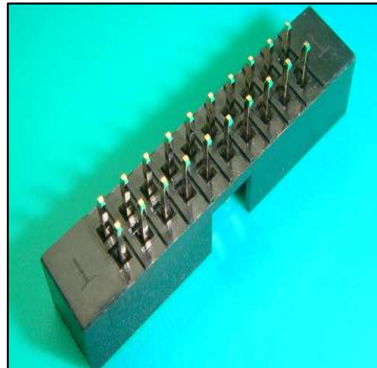


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3.6	Floor Life 拆封後使用期限	Box Header (SMT Type)	Refer to 9.0 參照第 9.0 項 (IPC/JEDEC J-STD-020D.1 ; Table 5-1)

Note: 適用電路板厚度 Applicable Printed Circuit Board Thickness: 0.8~1.6 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			
(IDC) Socket  Terminated Height 11.4mm JS-ID2005SCGX		(IDC) Socket  Terminated Height 8.5mm JS-ID2005CGX	
Box Header DIP Type Right Angle JS-1300R		Box Header SMT Type Straight JS-1300D	
Box Header DIP Type Straight JS-1300			

**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



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**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 插入力與拔出力	Insert and withdraw with connectors at the speed rate of 25.4 mm /minute. 電線端連接器與電路板端連接器嵌合，以每一分鐘 25.4 mm 的速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)	單一接觸點 Per Contact 插入力最大容許值： Insertion Force : <b>0.3kg/f Max</b> 拔出力最小容許值： Withdrawal Force : <b>0.03 kg/f Min</b>
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 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 mm 速率之軸向拔出力 (EIA/ECA 364-29C)	單一接觸點 Per Contact 最小容許值 <b>0.8kgf/Min.</b>

**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. (EIA/ECA 364-23C) 對組合狀態下連接器，於其兩端施以最大電壓 20mV 以及最大電流 100mA (Does not include wire resistance 不包含電線阻抗)	Contact Resistance: <b>20 milliohms Max.</b> 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.對相鄰兩接觸導體，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: <b>Initial 1000 megohms Min</b> 最初容許值. 1000 兆歐姆
7.3 Withstanding Voltage 耐電壓	Apply <b>500V A/C (rms)</b> for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the mate connectors. 對組合狀態下連接器，於其相鄰兩導體末端各施以電壓 <b>500V A/C(實效值)</b> 時間 1 分鐘，且漏電流必須小於 <b>0.5mA(毫安培)</b> (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 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 <b>Temperature Rise: +30°C/Max.</b> 組合狀態下連接器溫度上昇最大容許值+30°C



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.2 Vibration 耐振動	<p>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)</p> <p>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)</p>	<p>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</p> <p>No discontinuity current is longer than 1 microsecond.            電流中斷現象,            時間不可多於 1 微秒</p>
8.3 Humidity (Steady State) 恆溫恆濕	<p>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)</p>	<p>(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</p> <p>(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</p> <p>經恆溫恆濕試驗後耐電壓            (After the test)            Withstanding Voltage:            500V A/C for 1 minute</p>



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8.4 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:</p> <p><b>-55°C+0/-3°C for 30 minutes. → Room Temp. 5 minutes</b>  <b>85°C+3/-0°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p>Total Cycles: 5 Cycles. 以-55°C+0/-3°C溫度持續 30 分鐘, 經室溫 5 分鐘, 而後再以 85°C+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>	<p>Same as paragraph 8.3 同 8.3 章節</p>	
8.5 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 )</p> <p>Temperature(溫度): 85±2°C. (For PBT) 105±2°C. (For Nylon 9T)</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) Contact Resistance : <b>30 milliohms Max. .</b> 經高溫老化試驗後接觸阻抗 最大容許值. 30 毫歐姆</p>	
8.6 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)</p> <p>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) Contact Resistance: <b>30 milliohms Max.</b> 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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Certificate Number PB 2214  
ISO 9002

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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.7	Cold 耐寒試驗 (Low Temperature)	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) Temperature(溫度) : -25±3°C. (For PBT) -40±3°C. (For Nylon 9T) Period(週期): 96 hours continuously . (持續 96 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. . 經耐寒試驗後接觸阻抗 最大容許值.30 毫歐姆
8.8	Solder Ability 焊錫性	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) Solder Temperature (焊錫溫度) : 245 ± 5°C. Immersion Period (沉澱週期) : 3 ±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	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
8.9	Resistance to Soldering Heat 焊錫耐熱性	By wave soldering 波焊適用溫度範圍 : Resistance to soldering heat when using Nylon 9T 使用 Nylon 9T 塑料能夠承受焊錫耐熱範圍 : Refer to Temperature Profile 請參考 8.9.1.1 溫度曲線圖 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 8.9.1.2 溫度曲線圖 By convection IR- reflow soldering 迴焊適用溫度範圍 : Refer to temperature profile 請參考 8.9.1.3 溫度曲線圖 by soldering iron 手工烙鐵焊錫適用溫度範圍 : 350 ± 5°C 5±0.5 Seconds. (EIA/ECA 364-56C) (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	No deformation or damage. 不可有變形或損壞

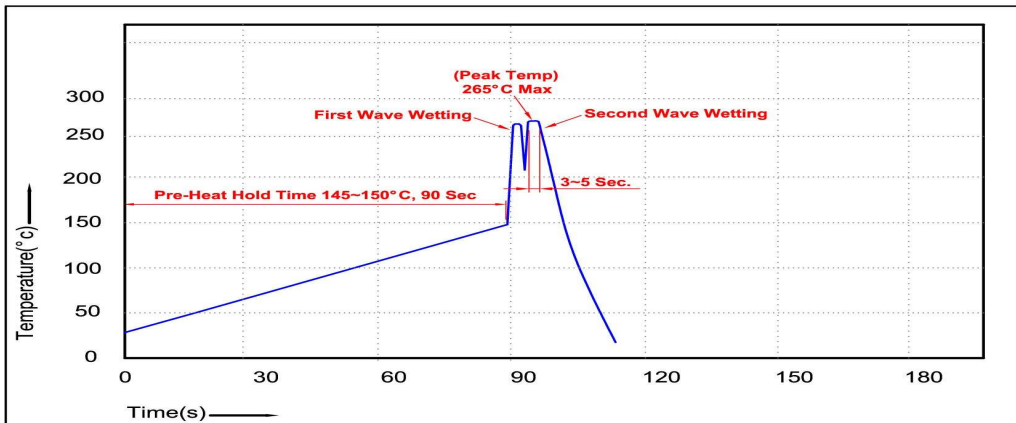


<b>Type Document</b>	<b>Product Specification</b>	<b>Revised /Edition</b>	<b>I</b>
<b>Date Issued</b>	<b>2009/07/01</b>	<b>Data Revised</b>	<b>2015/02/17</b>
<b>Subject : JS-ID2005SCG JS-ID2005CG JS-1300 JS-1300R JS-1300D</b>			<b>Issued By:</b> <b>Engineering Dept.</b>
<b>Pitch: 2.00mm IDC Socket &amp; Box Header Series Flat Cable to Board Connector</b>			

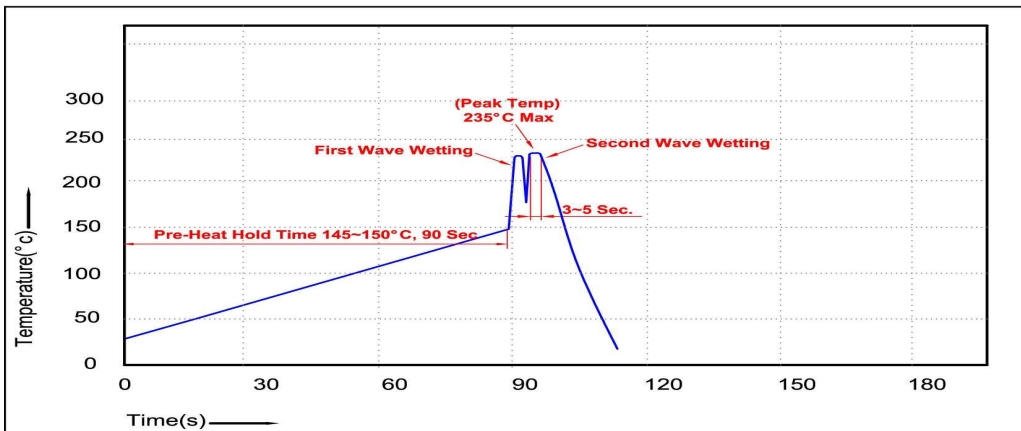
Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試依照客戶需求

**8.9.1 Temperature Profile(溫度曲線圖) :**

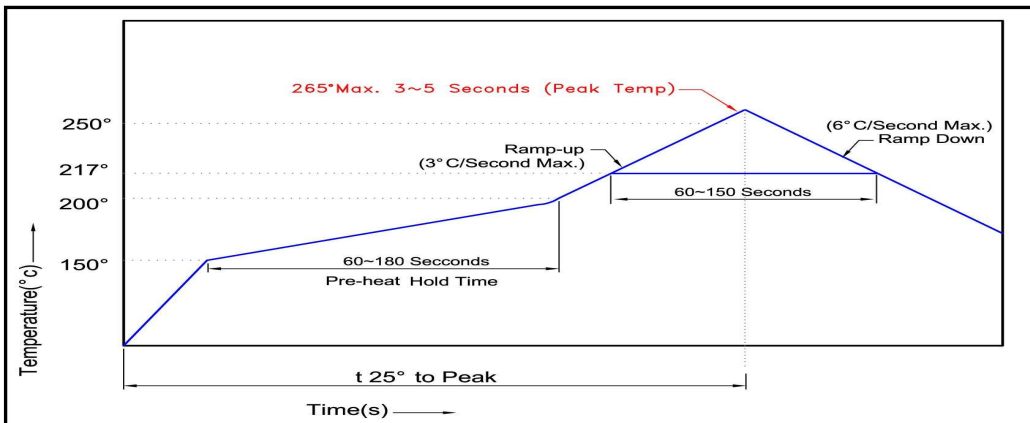
**8.9.1.1 Wave Peak Soldering In- Lead-Free Process 波焊無鉛制程 :**



**8.9.1.2 Wave Peak Soldering In- General Process 波焊一般制程**



**8.9.1.3 Convection IR-Reflow Soldering In- lead-Free Process 迴流焊無鉛制程 / (IPC/JEDEC J-STD-020D.1)**







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**9.0 Caution (注意事項) :** Parts are made of hydrophilic nylon 9T and apt to absorb moisture. Once the vacuum-packing unpacked, please keep parts in the environment of temperature < 30°C/ humidity < 60% RH, and send to re-flowing **within 72 hours** to prevent parts blistered or deformed during soldering.

尼龍9T塑料因具親水之特性，故採用真空包裝以減少吸濕受潮。真空包裝經拆封應避免曝露於溫度高於30°C，濕度高於 60% RH的環境中，並在**拆封72 小時內**全數使用完畢，以防止後續迴焊製程產生起泡變形現象。

**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:** J.M.Chang      **Approved:** Peter Chang      **Verified:** Indiana Huang