



Part No.	YY-A2554-W* Series	PRODUCT SPECIFICATION		Document No.		SPA2554-01													
Title	2.50mm(.098") Pitch Male Header			Rev.	X2	Page	1 of 4												
<p>1. Scope</p> <p>This specification covers the 2.50mm Pitch Male Header Connector series.</p> <p>2. Product &amp; Part Number</p> <table border="1"><thead><tr><th>Product Name</th><th>Product Number</th></tr></thead><tbody><tr><td>Header</td><td>YY-A2554-W*</td></tr></tbody></table> <p>3. Material</p> <table border="1"><thead><tr><th>Product Name</th><th colspan="2">Material</th></tr></thead><tbody><tr><td rowspan="2">Header</td><td>Body</td><td>Nylon 66 UL94-V0 GWT 750°C No Flame</td></tr><tr><td>Pin</td><td>Brass</td></tr></tbody></table> <p>4. Shape, Construction and Dimensions</p> <p>See attached drawings</p>								Product Name	Product Number	Header	YY-A2554-W*	Product Name	Material		Header	Body	Nylon 66 UL94-V0 GWT 750°C No Flame	Pin	Brass
Product Name	Product Number																		
Header	YY-A2554-W*																		
Product Name	Material																		
Header	Body	Nylon 66 UL94-V0 GWT 750°C No Flame																	
	Pin	Brass																	
Created	Checked	Approved	Date																
Kang	Denise	Jessica	2013/06/19																



Part No.	YY-A2554-W* Series	<b>PRODUCT SPECIFICATION</b>	Document No.	SPA2554-01	
Title	2.50mm(.098") Pitch Male Header		Rev.	X2	Page 2 of 4

### 5. Ratings

	ITEM	STANDARD
5-1	Current Rated 環境溫度	4A at Tamb 40°C 2A at Tamb 105°C
5-2	Voltage Rated 額定電壓	32V AC/DC

### 6. Electrical Performance

	ITEM	TEST CONDITION	REQUIREMENT
6-1	Contact Resistance 接觸組抗	Mate connectors ,measure by dry circuit 20mV Max., 100mA Max. (EIA 364-23B) 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	10 mΩ Max. Initial 最大值
6-2	Insulation Resistance 絕緣組抗	Mate connectors , apply 500V DC between adjacent terminal or ground. (EIA 364-21) 組合狀態下連接器,對相鄰兩接觸導體,各施以 500V DC 電壓量測其間絕緣阻抗值	1000 MΩ Min. Initial 最小值
6-3	Dielectric Strength 耐電壓	Mate connectors , applied 1400V AC(rms) 1 minute between adjacent terminal or ground. (EIA 364-20) 組合狀態下連接器,於其相鄰兩導體末端各施以 1400V AC(實效值)時間 1 分鐘	No Breakdown 沒有損壞

### 7. Mechanical Performance

	ITEM	TEST CONDITION	REQUIREMENT
7-1	Contact Retention Force 保持力	Apply axial push out force at the speed rate of 25 ± 3 mm/minute on the contact assembled in the housing. 用軸向的力量拔出組裝在 Housing 裡的端子以每分鐘 25±3 mm 的速率	2.0 Kgf Min. 最小值



Part No.	YY-A2554-W* Series	PRODUCT SPECIFICATION	Document No.	SPA2554-01		
Title	2.50mm(.098") Pitch Male Header		Rev.	X2	Page	3 of 4
<b>8. Environmental Performance and Others</b>						
	ITEM	TEST CONDITION	REQUIREMENT			
8-1	Dry Heat 溫度(熱)	85 ± 2°C , 96 hours. (EIA 364-17B)	Contact resistance : 20mΩ Max. 接觸組抗 Appearance : No Damage 外觀沒有損壞			
8-2	Cold Exposure 溫度(冷)	-40 ± 2°C , 2 hours. (EIA 364-59A)	Contact resistance : 20mΩ Max. 接觸組抗 Appearance : No Damage 外觀沒有損壞			
8-3	Salt Spray 鹽水噴霧	48 ± 4 hours exposure to a salt spray from the 5 + 1% solution at 35 ± 2°C (EIA 364-26) 曝露在鹽水噴霧下 48±4 小時 5+1%鹽水溶液 溫度 35± 3°C	Contact resistance : 20mΩ Max. 接觸組抗 Appearance : No Damage 外觀沒有損壞			
8-4	Humidity 耐濕性	Temperature : 40 ± 2 °C 溫度 Relative Humidity : 90~95%相對溼度 Duration : 96 hours 持續時間 (EIA 364-31)	Contact resistance : 20mΩ Max. 接觸組抗 Appearance : No Damage 外觀沒有損壞 Dielectric Strength : 耐電壓 To pass para.5-5 滿足 5-5			
8-5	SO <sub>2</sub> Gas	Test gas concentration: CL <sub>2</sub> =20 ppb NO <sub>2</sub> =200 ppb H <sub>2</sub> S=100 ppb SO <sub>2</sub> =200 ppb Temperature: 30°C Exchange rate: 5 times/hour Test Duration: 16 hours (EIA 364-65)	Contact resistance : 20mΩ Max. 接觸組抗 Appearance : No Damage 外觀沒有損壞			
8-6	Temperature Cycling 溫度循環	25 cycle consists of : (1)-55 °C , 30 minutes →Room Temp. 5minutes (2)+85°C , 30 minutes →Room Temp. 5minutes (EIA 364-32) -55 °C 溫度持續 30 分鐘.室溫持續 5 分鐘 ++85°C 溫度持續 30 分鐘.室溫持續 5 分鐘 為一循環 需做 25 循環	Contact resistance : 20mΩ Max.接觸組抗 Appearance : No Damage 外觀沒有損壞 Dielectric Strength : 耐電壓 To pass para.5-5 滿足 5-3			



Part No.	YY-A2554-W* Series	<b>PRODUCT SPECIFICATION</b>	Document No.	SPA2554-01	
Title	2.50mm(.098") Pitch Male Header		Rev.	X2	Page 4 of 4

9. Others

	ITEM	TEST CONDITION	REQUIREMENT
9-1	Durability 耐久性	When mated up to 10 cycles repeatedly by the rate of 10 cycles per minute. 插入拔出 100 循環,以一分鐘 10 循環的速率	Contact resistance : 20mΩ Max. 接觸組抗
9-2	Temperature Rise 溫度上升	Carrying rated current load. (UL498) 組合狀態下連接器,最大容許電流通電,量測連接器的上升溫度	30°C Max. 最大值
9-3	Vibration 耐震動性	Amplitude : 1.5mm P-P Sweep time : 10~55~10 HZ in 1 minute Duration : 2 hours in each X , Y , Z axes (EIA 364-28D) 振幅/頻率/持續時間	Contact resistance : 20mΩ Max. 接觸組抗 Appearance: No Damage 外觀沒有損壞 Discontinuity : 電流中斷 1.0 microsecond Max.
9-4	Solder ability 焊錫性	Soldering Time : 3 ± 0.5 sec. 時間 Solder Temperature : 245 ± 5°C 溫度	Minimum : 吃錫面積 95% of immersed area.
9-5	Resistance to Soldering Heat 焊錫耐熱性	Dip connector terminal tails in solder Soldering Time : 5 ± 0.5 sec. 時間 Solder Temperature : 245 ± 5°C 溫度	No Damage. 沒有損壞
9-6	Glow Wire Test 燃燒測試	Connector subject to rated temp glow wire for 30 seconds on X, Y & Z axis ( IEC 60695-2-11 )	Glow wire temp=750°C The tissue paper placed below it shall not ignite.
9-7	Ball Pressure Test	Test for 1 hour at +140°C ( IEC 60695-10-2 )	Diameter of footprint not To exceed 2mm.

10. Operating Temperature : -40 to + 105°C

環境溫度