PEC. NO.: PS-50113-2	XXXXX-XXX R	REVISION: A
PRODUCT NAME: _0.	8mm Board To Board CONN.	
PRODUCT NO:	0113-xxxxx-xxx series	
PRODUCT NO: 50 PREPARED: FENGXIAO	CHECKED: DAVID	APPROVED:
PREPARED:	CHECKED:	APPROVED:
PREPARED: FENGXIAO	CHECKED: DAVID	APPROVED: SIMON

Aces P/N: 50113-xxxx series TITLE: 0.8MM PITCH BOARD TO BOARD CONN REVISION: A RELEASE DATE: 2014/01/18 ECN No: ECN-1401248 PAGE: **2** OF **8** 1 2 3 APPLICABLE DOCUMENTS......4 4 REQUIREMENTS......4 5 6 7 PRODUCT QUALIFICATION AND TEST SEQUENCE...... 8

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A ECN-1401240 OF DATE WORKING VOLTAGE TENGATAO 2014/01/18

Aces P/N: 50113-xxxx series

TITLE: 0.8MM PITCH BOARD TO BOARD CONN

2 SCOPE

This specification covers performance, tests and quality requirements for 0.8mm pitch Board To Board CONN.

3 APPLICABLE DOCUMENTS

EIA-364 ELECTRONICS INDUSTRIES ASSOCIATION

4 REQUIREMENTS

- 4.1 Design and Construction
 - 4.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.
 - 4.1.2 All materials conform to R.o.H.S. and the standard depends on TQ-WI-140101.
- 4.2 Materials and Finish
 - 4.2.1 Contact: High performance copper alloy (Phosphor Bronze)

Finish: SEE ORDER INFORMATION

4.2.2 Housing: Thermoplastic or Thermoplastic High Temp., UL94V-0

- 4.3 Ratings
 - 4.3.1 Working Voltage Less than 36 Volts AC (per pin)
 - 4.3.2 Voltage: 100 V (AC(rms)/DC)
 - 4.3.3 Current: 0.5 A (AC(rms)/DC)
 - 4.3.4 Operating Temperature : -55°C to +85°C

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5 Performance

5.1. Test Requirements and Procedures Summary

Item	Requirement	Standard				
Examination of Product	, , , ,	Visual, dimensional and functional per applicable quality inspection plan.				
ELECTRICAL						
Item	Requirement	Standard				
Low-signal Level Contact Resistance	40 m \(\Omega\) wax.(initiar)per contact	Mate connectors, measure by dry circuit, 20mV Max., 10mA Max. (EIA-364-21)				
Insulation Resistance		Unmated connectors, apply 250 V DC between adjacent terminals. (EIA-364-21)				
Dielectric Withstanding Voltage	250 VAC Min. at sea level for 1 minute.No discharge, flashover or breakdown.Current leakage: 0.5 mA max.	Test between adjacent contacts of unmated connectors.(EIA-364-20)				

MECHANICAL						
Item	Requirement	Standard				
Durability 30 cycles.		The sample should be mounted in the tester and fully mated and unmated the number of cycles specified at the rate of 25.4 ± 3mm/min. (EIA-364-09)				
Mating and Un-mating Forces	1.47 N (150gf) Max./CKT. 0.118 N (12gf) Min./CKT.	Mate and un-mate connectors at a rate of 25 ± 3 mm/min.				
	MECHANICA	AL .				
Terminal / Housing Retention Force	1.96 N (0.2Kgf) Min. 3.9 N (0.4Kgf) Min.	Apply axial pull out force on the terminal assembled in the housing at a rate of 25± 3 mm/min.				
Fitting Nail / Housing Retention Force	0.15Kgf Min.	Apply axial pull out force on the terminal assembled in the housing at a rate of 25± 3 mm/min.				
Vibration	1 μs Max.	The electrical load condition shall be 100 mA maximum for all contacts. Subject to a simple harmonic motion having amplitude of 0.76mm (1.52mm maximum total excursion) in frequency between the limits of 10 and 55 Hz. The entire frequency range, from 10 to 55 Hz and return to 10 Hz, shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of three mutually perpendicular directions. (EIA-364-28 Condition I)				

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Shock (Mechanical)	1 μs Max.	Subject mated connect 50 G's (peak value) It pulses of 11 millisect Three shocks in each applied along the three perpendicular axes of specimen (18 shocks) load condition shall be	nalf-sine shock onds duration. direction shall be ee mutually f the test). The electrical		

maximum for all contacts. (EIA-364-27, test condition A)

ENVIRONMENTAL						
Item	Requirement	Standard				
Resistance to Reflow		Pre Heat : 150°C ~180°C, 60~90sec.				
Soldering Heat	Sequence Group 9 (Lead Free)	Heat : 230°C Min., 40sec Min.				
		Peak Temp. : 260°C Max,				
		10sec Max.				
		Mate module and subject to follow				
		condition for 5 cycles.				
Thermal Shock	See Product Qualification and Test					
Thermal Shock	Sequence Group 3	-40 +0/-3 °C, 30 minutes				
		+85 +3/-0 °C, 30 minutes				
		(EIA-364-32, test condition A)				
		Mated Connector				
I I mai dite	See Product Qualification and Test	40°C, 90~95% RH,				
Humidity	Sequence Group 3.	Reefer to Method II.				
		(EIA-364-31, Test condition A)				
		Subject mated connectors to				
Temperature life	See Product Qualification and Test	temperature life at 85° for 96				
	Sequence Group 4	hours. Measure Signal.				
		(EIA-364-17, Test condition A)				
		Subject mated/unmated				
Salt Spray	See Product Qualification and Test	connectors to 5% salt-solution				
	Sequence Group 5	concentration, 35°C for 8 hours.				
	Joequence Group 5	(EIA-364-26,Test condition B)				
		A - I the - 2 of a - a I I a - b - th				
	Calda a shiin a sa a shall ba	And then into solder bath,				
Solderability	Solder able area shall have	Temperature at 230 ±5°C, for 3+/5				
	minimum of 95% solder coverage	Sec				
		(EIA-364-52)				

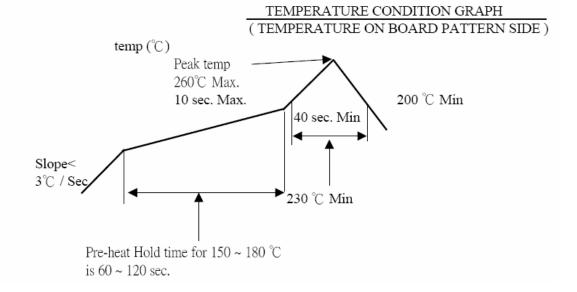
Note. Flowing Mixed Gas shell be conduct by customer request.

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TITLE: 0.8MM PITCH BOARD TO BOARD CONN

6.INFRARED REFLOW CONDITION

6.1.Lead-free Process



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7.PRODUCT QUALIFICATION AND TEST SEQUENCE

					Test (Group				
Test or Examination	1	2	3	4	5	6	7	8	9	10
				,	Test Se	quenc	e			
Examination of Product			1 . 7	1 . 6	1 \ 4			1		
Low-signal Level Contact Resistance	1 \ 5	1 • 4	2 \ 10	2 . 9	2 \ 5			3		
Insulation Resistance			3 . 9	3 . 8						
Dielectric Withstanding Voltage			4 · 8	4 · 7						
Mating / Unmating Forces	2 · 4									
Durability	3									
Vibration		2								
Shock (Mechanical)		3								
Thermal Shock			5							
Humidity			6							
Temperature life				5						
Salt Spray					3					
Solder ability						1				
Terminal / Housing Retention Force							1			
Fitting Nail /Housing Retention Force							2			
Resistance to Soldering Heat								2		
Sample Size	4	4	4	4	4	2	4	4		