SPEC. NO.:	PS-527	06-XXXXX-XXX	<b>REVISION:</b>	1
PRODUCT N	NAME:	0.80MM PITCH EDG	GE CARD CONN.	
PRODUCT N	<b>IO:</b>	52706 SERIES		

PREPARED:	CHECKED:	APPROVED:
Xu,Zhonglin	Lu,jing quan	Hsieh,fu yu
DATE:2019/08/15	DATE: 2019/08/15	DATE: 2019/08/15

			Aces P/N:	52706series			
TITLE:	0.80MM PITCH	I EDGE CARD	CONN.				
RELEASE	DATE: 2019/08/15	<b>REVISION: 1</b>		ECN No: ECN-1903039	PAGE: <b>2</b> OF <b>9</b>		
1 2	REVISION HIS' SCOPE						
3	APPLICABLE DOCUMENTS						
4	REQUIREMENTS						
5	PERFORMANCE						
6	INFRARED REI	INFRARED REFLOW CONDITION					
7	PRODUCT OUA	<b>ALIFICATION</b>	AND TEST S	SEQUENCE	9		

	Aces P/N: 52706series									
ТІТ	TITLE: 0.80MM PITCH EDGE CARD CONN.									
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1	1 Revision History									
	Rev.	ECN #	ECN # Revision Description Prepared Date							
	1	ECN-1903039	NEW SPEC			XUZHO	NGLIN	2019/3/22		
4								1		

				Aces P/N: 5	2706series					
Т	TTLE: 0.80N	<b>IM PITCH</b>	EDGE CARD	CONN.						
REL	EASE DATE: 201	9/08/15	REVISION: 1		ECN No: ECN-1903039		PAGE: 4 OF 9			
2	<ul> <li>SCOPE</li> <li>This specification covers performance, tests and quality requirements for</li> <li>0.80mm PITCH EDGE CARD Connector</li> </ul>									
3	APPLICA	BLE DOC	UMENTS							
	EIA-364: ELECTORONICE INDUSTRIES ASSOCIATION TS-1000: ENVIRONMENTAL TEST METHODOLOGY PCI Express Card Electromechanical Specification Revision 4.0									
4	REQUIRE	MENTS								
	4.1 Design a	and Constru	iction							
		product dra	wing.		n and physical dimens he standard on TQ-W		pecified on applicable 01			
	4.2Materials	and Finish								
		Finish: Housing: Fit Nail: H Finish:	(a) Contact Are (b) Under plate (c) Solder area	ea: Refer to the Refer to the Refer to the High Temp., ce copper allo Refer to the	e drawing. e drawing. Resin, UL94V-0 by (Brass) e drawing.					
	4.3Ratings									
	4.3.1	Voltage:	600 Volts AC							
	4.3.2	Current F	Rating: 2.6A							
	4.3.3	Storage a	nd Operating To	emperature :	-55℃ to +125℃					

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## **5 PERFORMANCE**

## 5.1 Test Requirements and Procedures Summary

ltem	Requirement	Standard							
Examination of Product		Visual, dimensional and functional per applicable quality inspection plan.							
	ELECTRICAL								
Item Requirement Standard									
Contact Resistance	40 m $\Omega$ Max. initial	Mate connectors, apply max. voltage of 30mV and a current of 100mA (EIA-364-23)							
Insulation Resistance	Initial 6,000 MΩ Min	Unmated connectors, apply 250 V DC between adjacent Terminals. (EIA-364-21))							
Dielectric Withstanding Voltage	No discharge, flashover or breakdown. Current leakage: 0.2 mA max.	600 V AC Min. at sea level for 1 Minute Test between adjacent contacts of Unmated connectors. (EIA-364-20)							
Temperature rise	30℃ Max. Change allowed	Mate connector: measure the temperature rise at rated current until temperature stable. The ambient condition is still air at 25°C (EIA-364-70,METHOD2)							

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	MECHANICAL	•				
ltem	Requirement	Standard				
Mating Force Un-mating Force	Mating Force: 1.25N per pin Max. Un-mating Force: 0.1 N per pin Min.	Operation Speed : 25.4 ± 3 mm/min. Measure the force required to mate connector. The thickness of test card:1.57mm (EIA-364-13 METHOD A)				
Normal Force-Initial	0.50 N / P. Min.	Exert axial pressure from carrying The plastics under the sub radian Highest point at the speed of $25.4 \pm 3$ mm/minute				
Contact & Fit Nail Retention Force	1.0 N/Pin Min.	Measure the retention force of Contact and Fit Nail in the housing Operation Speed :25.4 $\pm$ 3mm/minute				
Durability	Contact Resistance: 50 m $\Omega$ Max. after testing	Mate connectors 500 cycles (EIA-364-09)				
Vibration	No electrical discontinuity greater Than 1 $\mu$ s shall occur , Contact Resistance : 50 m $\Omega$ Max.	Subject mated connector to 50-2000- 50 Hz traversed in 1 minute at 5 G's accelerated speed, 2 hours each of 3 mutually perpendicular plane,10Ma potential applied.				
Shock (Mechanical)	No discontinuity longer than 1 Microsecond allowed. Contact Resistance : 50 m $\Omega$ Max.	Subject mated connectors to 30 G's (peak value) half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction shall b applied along the three mutually perpendicular axes of the test specimen (18 shocks). The electrical load condition shall be 100mA maximum for all contacts. (EIA-364-27)				

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## TITLE: 0.80MM PITCH EDGE CARD CONN.

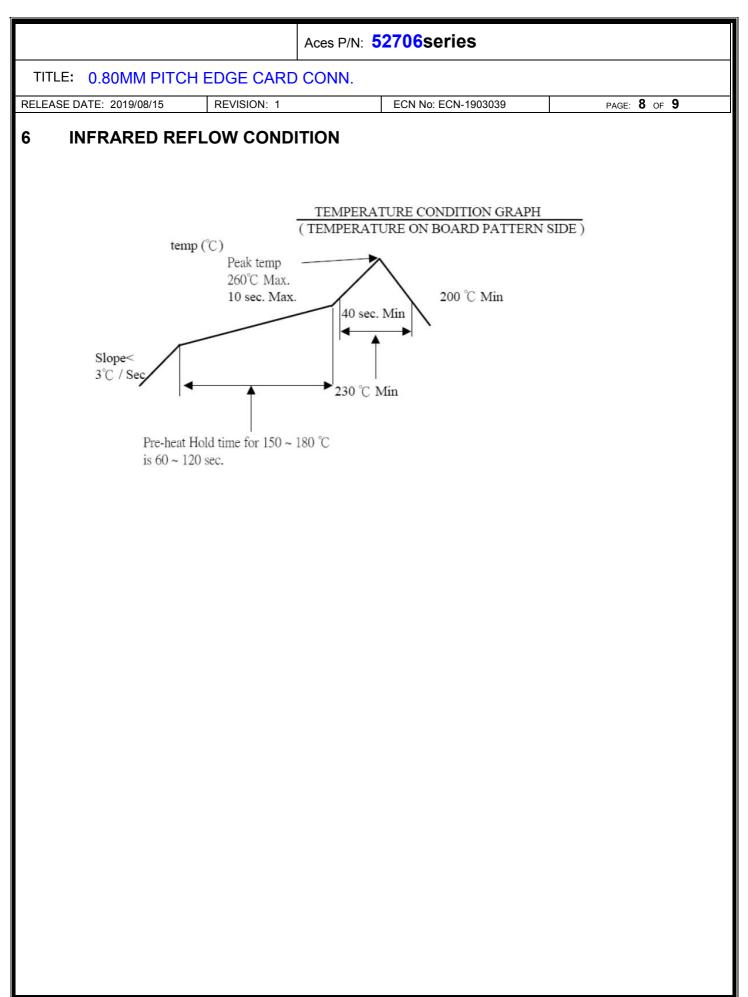
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		_
ltem	Requirement	Standard
Thermal Shock	After testing, no damage , Contact Resistance 50 m $\Omega$ Max. Dielectric Strength should be OK, Insulation Resistance should be 5000M $\Omega$ MIN	Mate connectors, expose to 100 cycles. From -55 +0/-3 °C, 30 minutes to +125 +3/-0 °C, 30 minutes. Change time is no more than 30 seconds. (EIA-364-32, test condition III)
Humidity	After testing, no damage , Contact Resistance 50 m $\Omega$ Max. Dielectric Strength should be OK, Insulation Resistance should be 5000M $\Omega$ MIN	Mate module and subject to follow condition for 24 cycles. 1 cycles: -25 +0/-3 ℃ 80% RH, 30 minutes +65 +3/-0 ℃, 80% RH 30 minutes (EIA-364-32, Test condition I)
HIGH Temperature life	After testing, no damage , Contact Resistance 50 m $\Omega$ Max. Dielectric Strength should be OK, Insulation Resistance should be 9000 M $\Omega$ MIN	Mate connectors to temperature life at 125°C for 250 hours. (EIA-364-17, Test condition A)
Salt Spray	After testing, no damage , Contact Resistance 50m $\Omega$ Max. Dielectric Strength should be OK, Insulation Resistance should be 6000 M $\Omega$ MIN	Subject mated/unmated connectors to 5% salt-solution concentration, 35°C for 48 hours. (EIA-364-26)
Solder-ability	Appearance of the specimen shall be inspected after the test with the assistance of a magnifier capable of giving a magnification of 10 X for any damage such as pinholes, void or rough surface Tin Lead & others: 95% of immersed area must show no voids, pin holes	Soldering time :4 to 6 sec Temperature:260 ±5℃



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PRODUCT QUALIFICAT	ION	AND	TES	T SE	QUE	NCE					
						Test	Group				
Test or Examination	1	2	3	4	5	6	7	8	9	10	
	Test Sequence										
Examination of Product	1,7	1	1	1,7	1,9	1,9	1,9	1,9	1,3	1	
Contact Resistance	2,6			2,4,6	2,8	2,8	2,8	2,8			
Insulation Resistance					3,7	3,7	3,7	3,7			
Dielectric Withstanding Voltage					4,6	4,6	4,6	4,6			
Temperature rise										2	
Mating/ Unmating Forces	3,5										
Normal Forces-Initial		2									
Contact & Fit Nail Retention Forces			2								
Durability	4										
Vibration				3							
Shock (Mechanical)				5							
Thermal Shock					5						
Humidity						5					
High Temperature life							5				
Salt Spray								5			
Solder-ability									2		
Sample Size	4	4	4	4	4	4	4	4	4	2	