


		<b>PRODUCT SPECIFICATION</b> 07SAHP (□□□□□□)		DOCUMENT NO CAS-0012		
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		DR:Eva Huang	APPD:Paul Yang		DATA:02/19/03'	
<b>LIST OF REVISION</b>						
REV	PAGE	DESCRIPTION			ECN. NO.	DATE
A	ALL	NEW			E9202026	02/20/03'

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<p>1.SCOPE□          This specification covers performance, test, and quality requirement for Circuit Assembly Asia Co.,Ltd. SATA PLUG HOST MOUNT 7 PIN CONNECTOR ASSEMBLY SERIES.</p> <p>2.APPLICABLE DOCUMENTS□          Reference documents listed below shall be the latest revision unless otherwise specified. Should a conflict occur between this specification and any of the listed documents then this specification shall prevail.</p> <p>2.1 Regulatory Requirments□</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Be UL and C-UL Recognized Component</li> <li><input type="checkbox"/> Be molded of plastics rated UL 94V-0</li> </ul> <p>2.2 Industry Stardard□</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> X3.131T-1994 SCSI-2 Small Computer System Interface</li> <li><input type="checkbox"/> ANSI-Y14.5M Dimension and Tolerancing</li> <li><input type="checkbox"/> EIA-364 Electrical Connector Test Procedures</li> <li><input type="checkbox"/> CA-SATA PLUG HOST MOUNT 7 PIN CONNECTOR DRAWINGS</li> </ul>			

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NUMBER OF \_\_\_\_\_  
 CONTACT POSITION

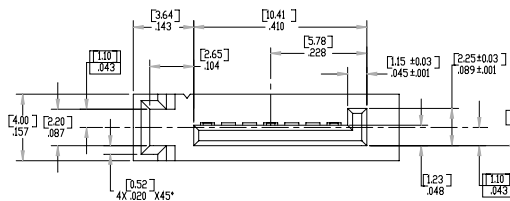
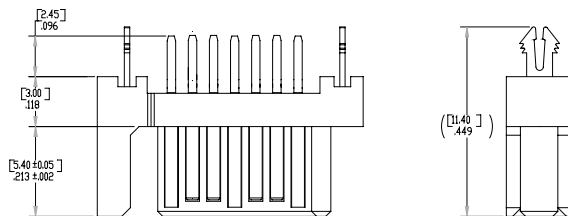
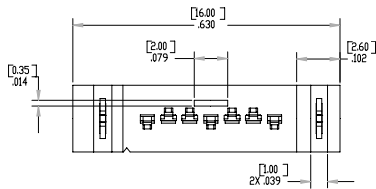
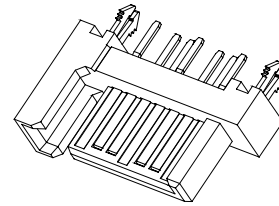
SERIAL ATA \_\_\_\_\_  
 HOST PLUG


PLATING \_\_\_\_\_


A=CONTACT AREA: GOLD FLASH  
 C=CONTACT AREA: .000015 [.00038] GOLD  
 D=CONTACT AREA: .000005 [.00013] GOLD  
 F=CONTACT AREA: .000030 [.00076] GOLD

ALL WITH: \_\_\_\_\_


SOLDER TAIL AREA: .000150 [.00381] 90/10 TIN/LEAD ALLOY  
 0=SURFACE MOUNT  
 1=THRU HOLD



	<p style="text-align: center;"><b>PRODUCT SPECIFICATION</b> (<input type="checkbox"/><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/>)</p>		DOCUMENT NO CAS-0012			
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<p><b>3.APPLICATION FEATURES</b></p> <p>3.1 Environmental Temperature Range -55 to +85</p> <p>3.2 Mechanical Insulator Material Glass filled thermoplastic UL94V-0 BLACK Contact Material Phosphor Bronze Contact Plating C= -Mating Area 15µ"Gold -solder Area 150µ"Tin/Lead -Underplate 75µ"Nickel</p> <p>3.3 Durability 200 cycles min.</p> <p>3.4 Contact Retention Force 800 gram minimum per contact</p> <p>3.5 Electrical Dielectric Withstanding Voltage 500VAC for 1 minute Insulator Resistance 1000MΩ-500VDC for 1 minute Contact Resistance 30mΩ Current Rating 1.5 A</p> <p>3.6 Recognition and Certification UL,C-UL Recognition</p> <p><b>4.CONNECTOR PERFORMANCE CRITERIA</b> Unless otherwise specified, all tests shall be performed at standard atmospheric Conditions.</p> <p><b>4.1 TEST SCHEDULE</b> This test schedule shows the tests and the order in which they shall be carried out as well as the requirement to be met.</p> <p>Unless otherwise specified, mated sets of connectors shall be test. A mated Set of connectors is called a "specimen". When the initial tests have been</p>						

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<p>completed, all specimens are divided up according to the test groups.        Care shall be taken to keep a particular combination of connectors together during the complete test sequence, i.e. when removal is necessary for a certain test, the same connectors as before shall be mated for the subsequent tests.</p> <p>Before testing commences, the connectors shall have been stored for at least 24 hours in the noninserted state under normal climatic conditions for testing.</p> <p>In the following test sequence tables, where and ELA test is specified without a letter suffix, the latest approved version of that test shall be used.</p>			

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Table 2			
Test description	Requirement		Procedure
Visual and dimensional inspection	Unmated connectors. No defects that would impair normal operations. No deviation from dimensional tolerances.		ANSI/EIA 364-18A-84 See drawings
Plating thickness measurement	Contact finish 0.038 $\mu$ m, minimum, gold, over 1.27 $\mu$ m, minimum, nickel.		
ELECTRICAL			
Low-level Contact resistance	EIA 364-23 Subject mated contacts assembled in housing to 20 mV maximum open circuit at 100mA maximum		<input type="checkbox"/> Initially 30m $\Omega$ maximum <input type="checkbox"/> Resistance increase 15m $\Omega$ maximum after stress
Withstanding voltage test	EIA 364-20 Method B Test between adjacent contacts of mated and unmated connector assemblies.		The dielectric shall withstand 500 VAC for 1 minute at sea level
Insulating resistance test	EIA 364-21 After 500 VDC for 1 minute <input type="checkbox"/> measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies.		1000 M $\Omega$ minimum
MACHANICAL			
Vibration and dimensional inspections	EIA 364-18 Visual <input type="checkbox"/> dimensional and functional per applicable quality inspection plan.		Meets product drawing requirements.
Durability	EIA 364-09 50 cycles for internal cabled application <input type="checkbox"/> 500cycles for backplane/blindmate application .Test done at a maximum rate of 200 cycles per hour.		
Contact retention force	Pull-out force along the horizontal or vertical axis.		800 gram Min. per pin
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ENVIRONMENTAL			
Physical shock	EIA 364-27 Condition H Subject mated connectors to 30 g□s half sine shock pulses of 11 msec duration. There shock in each direction applied along three mutually perpendicular planes for a total of 18 shock . See NOTE 2.		No discontinuities of 1 μs or longer duration. No physical damage.
Random vibration	EIA 364-28 Condition V Test letter A Subject mated connectors to 5.35 g□s RMS. 30minutes in each of three mutually perpendicular planes. See NOTE 2.		No discontinuities of 1 μs or longer duration
Humidity	EIA 364-31 Method □ Test Condition A. Subject mated connectors to 96 hours at 40□ with 90 □to 95□RH.		See NOTE 1.
Temperature life	See NOTE 1.		
Thermal shock	EIA 364-32 Test Condition □. Subject mated connectors to 10 cycles between -55□ and +85□.		See NOTE 1.





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4.2 Test Sequence

TABLE 3 Continue

ITEM	TEST	TEST GROUP (a)					
		A	B	C	D	E	
		TEST SEQUENCE (b)					
1	Examination of the connector□s□	1,5	1,6	1	1,8	1,4	
2	Low-level Contact resistance	2,4	2,5	2,4			
3	Insulation resistance				2,6		
4	Dielectric withstanding voltage				3,7		
5	Current rating			5			
6	Durability	3				2	
7	Physical shock		3				
8	Vibration		4				
9	Humidity				5		
10	Temperature life			3			
11	Thermal shock				4		
12	Contact retention force					3	

NOTE□

- a□ Preconditioning, 20 cycles for the 50-durability cycle requirement, 50 cycles for the 500-durability cycle requirement. The insertion and removal cycle is at the maximum rate of 200 cycles per hour.