

东莞市箐国电子有限公司

PRODUCT SPECIFICATION		SPEC.NO.	SPEC- SCSI		
		Approved Date	03-24-2024		
Name	PRODUCT SPECIFICATION	Amended Date			
Title	EIAJ- SCSI Connectors	Page 1 Sum To 5 Pages			
1. SCOPE This specification covers performance, methods and quality requirements for the SCSI plug and receptacle connectors. These connectors are cable mounted plug and printed circuit board mounted receptacle connectors. 2. REQUIREMENTS 2.1 Design and Construction Product shall be of the design , construction and physical dimensions specified The in applicable product drawing. 2.2 Materials and Plating They are specified on applicable product drawing. 2.3 Ratings Voltage: 500 VAC Current: 1A Operating temperature: -55℃ to +105℃ , relative humidity 85%max. 2.4 Test Requirements and Procedures Summary					
			Check	Director	Tab
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A	Approved	03-24-2024			
Item	Change Description	Date			

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Test Description	Requirement	Procedure	
Insulation resistance	Minimum 500 M Ω	Test between contacts, contact and power allocation panel clause 5.2 of JISC 5402, under condition of 500 $\pm$ 50 VDC, 1 minute $\pm$ 5 seconds.	
Dielectric withstanding voltage	No circuit disorder due to insulation breakage. Leakage Current is max. 2mA.	Test between contacts, contact and power allocation panel clause 5.1 of JISC 5402, under condition of 500 VAC, 1 minute $\pm$ 5 seconds.	
Contact impedance	Below 80 m Ω .	Clause 5.3 of JISC 5402.	
Contact retention	Above 0.15 N.	Clause 6.3.1 of JISC 5402.	
Mating and unmating forces	Mating force below 30 N, unmating force above 4.2 N.	Clause 6.6 of JISC 5402.	
Durability	a) Contact impedance: 25 m Ω max. change from the initial; b) Mating force below 21 N, unmating force above 4.2 N; c) Appearance: No defects that would impair normal operations.	Clause 7.4.2 of JISC 5402. Cycling times: 500. Action speed: no more than 500 times/hour.	
Mechanical shock	1) No discontinuity of 1 μ s or longer. 2) Appearance: No defects that would impair normal operations.	Clause 7.4.3 of JISC 5402. Vibration range: 10 to 55 Hz. Amplitude: 0.75 mm. Duration: 2 hours for each of the 3 mutually perpendicular planes including axial direction totaling 6 hours.	
Vibration	1) No discontinuity of 1 μ s or longer. 2) Appearance: No defects that would impair normal operations.	Clause 7.4.4 of JISC 5402. Acceleration : 490m/s ² Shock time: 11ms. 31se waveform: half-sine Duration: 2 cycles for each of the 3 mutually perpendicular planes including axial direction totaling 18 cycles.	
Cable axial pull test	1) Unmated 2) No disorder when mated.	Clause 7.4.5 of JISC 5402. Pull from mating axial to plug side connector with 70 N for 1 minute.	

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Test Description	Requirement	Procedure	
Withstanding climate	- Contact impedance: 25 mΩ max. change from the initial; - Insulation resistance: below 100 MΩ - Dielectric withstanding voltage: no circuit disorder due to insulation breakage. - Appearance: No defects that would impair normal operations.	Clause 7.5.2 of JISC 5402. Operating temperature: 70 °C . Deposit time: 16 hours. And, made visual inspection after the test clause 3.3 of JISC 5402. the interval to the next test is 72 hours.	
Humidity	- Contact impedance: 25 mΩ max. change from the initial; - Insulation resistance: below 100 MΩ - Dielectric withstanding voltage: no circuit disorder due to insulation breakage. - Appearance: No defects that would impair normal operations	Test for 4 days, clause 7.5.3 of JISC 5402. Proceed with treatment for 1 to 2 hours after test, clause 3.3 of JISC 5402.	
Temperature cycling	- Contact impedance: 25 mΩ max. change from the initial; - Insulation resistance: below 100 MΩ - Dielectric withstanding voltage: no circuit disorder due to insulation breakage. - Appearance: No defects that would impair normal operations	Test at the state of being mated and the following condition, clause 7.2 of JISC 5402: - low temperature -25 °C for 30 minutes; b) chamber temperature for 2 to 3 minutes; - high temperature for 3 minutes; 5 temperature cycling, then proceed with treatment for 1.2 to 2 hours clause 3.3 of JISC 5402. Note: - test for insulation resistance and dielectric withstanding voltage tests are conducted within 60 minutes after completion of this test; - mated connectors can't be unmated until the end of test for contact impedance.	
Salt spray test	- contact impedance: 25 mΩ max. change from the initial; - insulation resistance: below 100 MΩ	Test for 48 ± 4 hours, clause 7.1 of JISC 5402. Products with salt water should be cleaned at normal temperature after the test.	
Solderability	Soldering coverage above 95%.	Test clause 7.11 of JISC 5402.	

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Test Description	Requirement	Procedure	
Appearance	No defects that would impair normal operations	Visual inspection.	
Construction and Dimension	For dimension without specified tolerance, the tolerance shall be ± 0.3 mm for numbers under 10, and ± 0.13 mm for numbers under 100. the angle tolerance is $\pm 1^{\circ}$.	Figure 1 and Figure 2 for connector's construction and dimension.	
Solder withstanding heat	Appearance: No defects that would impair normal operations. After this test, insulation resistance, dielectric withstanding voltage test should be done.	Test condition: a) soldering temperature: $260 \pm 5^{\circ}\text{C}$ b) holding time: 5 ± 1 second.	
Package description	Description of the connectors		

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3.Product Qualification Test Sequence									
Test or Examination	Test Group(a)								
	1	2	3	4	5	6	7	8	
	Test Sequence(b)								
Visual and dimensional inspection	1,6	1,4	1,5	1,2	1,4	1,3	1,3	1,3	
Packing description	2								
Contact resistance	3								
Insulation resistance	4								
Dielectric withstanding voltage	5								
Vibration			2						
Physical shock			3						
Durability		3							
Mating and unmating force		2							
Cable axial pull test			4						
Salt spray test					3				
Temperature cycle						2			
Humidity					2				
Solderability							2		
Solder withstanding heat								2	
Withstanding climate				2					
Number of Samples	35	5	5	5	5	5	5	5	
Defect limit	0	1	1	1	1	1	1	1	
4 Sample Selection: Sample shall be prepared in accordance with applicable manufacturers instructions and shall be selected at random form current production .									