J&B东莞市骏佳电子科技有限公司

产品规格书

1. SCOPE[适用范围]

This specification covers the FCS product series.

本规范适用于FCS系列产品

2. Part name & part number 【部件名称 & 部件编号】

Part name [部件名称]	Part number[部件编号]
1.27 FEMALE HEADER	FCS

3. RATINGS[标准额定值]

Item[项目]	Standard[规格]	
Rated voltage[额定电压]	250V	AC/DC
Rated current[额定电流]	1A	
Operating temperature[使用温度范围]	-40℃ To +105℃	

4. TEST CONDITION[测试条件]

The test and measurement, unless otherwise specified, shall be carryout at a temparature of 15 tp 35℃, Relative humidity of 25 to 85%, and atmospheris pressure of 86 to 106kPa. However, when any doubt arises on the judgment value under it, the test and measurement shall be carryout at a temperature of 20±2℃, relative humidity of 60 to 70%, and atmospheric pressure of 86 to 106kPa.

[除非特别说明之外，一般测试及测量将于温度15~35℃，相对湿度25~85%，大气压力86~106kPa之条件下完成，但若于上述条件下有任何影响判定值的疑虑，可考虑在温度20±2℃，相对湿度60~70%及大气压力86~106kPa之条件下完成试验。]

5. Appearance[外观]

By looking, there shall not be any abnormality such as deformity, exfoliation of plating, etc., which can reduce performance. No defect shuch as cracks scratches or blemishes.

[经目视观察，外观不可有变形，电镀脱落等会降低其功能的异常现象，也不可有严重破裂、刮伤或污损之缺点。]

6. ELECTRICAL EFFICIENCY[电气特性]

NO.[编号]	Item[项目]	Test Method[试验方法]	Requirement[性能要求]
6.1	Contact Resistance [接触电阻]	EIA-364-23C Subject mated contacts assembled in housing to closed circuit current of 100 mA maximum at open circuit at 20 mV maximum. [在开路电压最大为20mV的状态下，对组装好的端子进行最大电流为100mA的回路测试。]	1. Initial value: 20 mΩ max. 初始值 最大20 mΩ 2. Final value: 30 mΩ max. 结束值 最大30 mΩ
6.2	Insulation Resistance [绝缘电阻]	EIA-364-21C Mate connectors, apply 500V DC for 1 minute between adjacent terminal or ground. [在插合连接器相邻接触件之间施加500V DC 电压持续1分钟]	1000MΩ Min.

NO.[编号]	Item[项目]	Test Method[试验方法]	Requirement[性能要求]
6.3	Withstanding Voltage [耐电压]	EIA-364-20 Test again after wire up 2 mins;Mate connectors,apply 500v AC Between adjacent terminal or ground.[在各相邻接触件间施加500V AC 通电2分钟后做测试]	No insulation breakdown [塑胶无爆裂]

7.ENVIRONMENTAL EFFICIENCY[环境特性]

NO.[编号]	Item[项目]	Test Method[试验方法]	Requirement[性能要求]
7.1	Heat Resistance[耐热试验]	EIA-364-17 Mated connector shall be placed in an environmental for 96 hours at +85±2℃.[将插合的连接器放在温度为+85±2℃的环境中96小时]	1. No evidence of damage.无损坏 2. The electrical performances meet the spec. specified in paragraph 6.1 电气性能符合表格6.1要求。
7.2	Cold Resistance[耐冷试验]	EIA-364-59C mated connector shall be placed in an environmental for 48 hours at -25±3℃.[将插合的连接器放在温度为-25±3℃的环境中48小时]	1. No evidence of damage.无损坏 2. The electrical performances meet the spec. specified in paragraph 6.1 电气性能符合表格6.1要求。
7.3	Humidity [耐湿性试验]	EIA-364-31 Mate connectors,40±2℃ in temperature and 90~95%RH in an environmental for 96 hours. After testing connector shall be left alone for 1 to 2 hours in a room ambient. [将插合的连接器，温度40±2℃，相对湿度90~96%的环境中，持续96小时。试验后，连接器须于室温中放置1~2小时，再测定其值。]	1. No evidence of damage.无损坏 2. The electrical performances meet the spec. specified in paragraph 6 电气性能符合表格 6 要求。
7.4	Temperature Cycling [温度循环]	EIA-364-30 low temerature:-40±3℃ high tempetature:105±3℃ After 5 cycles at the normal environment for testing after 2 hours [低温：-40℃±3℃] [高温：105℃±3℃] [5此循环后放置在正常环境中恢复2小时后进行测试]	1. No evidence of damage.无损坏 2. The electrical performances meet the spec. specified in paragraph 6.1 电气性能符合表格6.1要求。
7.5	Salt spray [盐雾测试]	EIA-364-26 Salt concentration:5% /Temperature:35±2℃ Testing time:8 hours, After salt is removed by running water and a drop is removed, it is measured. [盐水比重：5% / 温度35±2℃] [试验时间：8小时，试验结束后用清水将残留盐份清洗并将水滴清楚后，才可测量。]	1. No evidence of damage.无损坏 2. The electrical performances meet the spec. specified in paragraph 6.1 电气性能符合表格6.1要求。

NO.[编号]	Item[项目]	Test Method[试验方法]	Requirement[性能要求]
7.6	Solderability [可焊性测试]	EIA-364-52 Soldering Time:3~5 S Solder Temperature:245±5℃ [焊锡时间：3~5秒] [焊锡温度：245±5℃]	95% min. of solder area [焊锡面积≥95%]
7.7	Resistance to soldering heat [耐焊性]	EIA-364-71 Soldering Time:5~10 S Solder Temperature:260±5℃ [焊锡时间：5~10秒] [焊锡温度：260±5℃]	Without deformation of case or excessive lossen. [塑胶不可有明显的变形或损坏]

8.MECHANICAL EFFICIENCY[机械特性]

NO.[编号]	Item[项目]	Test Method[试验方法]	Requirement[性能要求]
8.1	Withdrawal force[端子拔出力]	EIA-364-29 Fix the matched connectors onto the ends of the tester, then pull the two parts apart at ≤10N/S, until they saparate completely. [排针与排母紧配，将排母固定在测力器上，对应的排针固定在测力器的另一端；在连接器的轴方施加拉力，施力速度≤10N/S，将排针从孔位拉出]	0.2 N Min. Only per termial [单一端子]
8.2	Insertion force[端子插入力]	EIA-364-29 Fix socket on one end of the tester and pin header the other end;then push the connectors to move forwards to match(@≤10N/S), until the connectors matches firmly. [将排母固定在测力器上，对应的排针固定在测力器的另一端；调整好排针跟排母的配插位置，在连接器的轴方施加压力，施力速度≤10N/S，公母紧配为止]	2 N MAX. Only per termial [单一端子]
8.3	Terminal retention Force [端子保持力]	EIA-364-29 Fix the dynamometer 150mm away from the wire of the connection, then apply axial pull out force at a speed ≤ 10N/S on the terminal assembled in the housing.[将测力器固定在距离150mm处，在连接器轴方向施加拉力，施力速度≤10N/S，将端子从孔位中拉出]	2.5 N Min. Only per termial [单一端子]