

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 FAM product series.
本规范适用于FAM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]
2.54 FEMALE HEADER	FAM

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]	3A	
Operating temperature [使用温度范围]	- 40°C To + 105°C	

4. TEST CONDITION [测试条件]

The test and measurement, unless otherwise specified, shall be carryout at a temperature of 15 to 35°C, Relative humidity of 25 to 85%, and atmospheric 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 $20 \pm 2^\circ\text{C}$, 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°C, 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 $20 \pm 2^\circ\text{C}$, 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 such 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, 20m max. 初始值 最大20 mΩ 2. Final value, 30m 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. [在插入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	Withstandin g 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 $+85 \pm 2$ $^{\circ}\text{C}$. [将插合的连接器放在温度为 $+85 \pm 2$ $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$. [将插合的连接器放在温度为 -25 ± 3 $^{\circ}\text{C}$ 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, $40 \pm 2^{\circ}\text{C}$ 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 $40 \pm 2^{\circ}\text{C}$, 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	Temperatur e Cycling [温度循环]	EIA-364-30 low temerature: $-40 \pm 3^{\circ}\text{C}$ high tempetature: $105 \pm 3^{\circ}\text{C}$ After 5 cycles at the normal environment for testing after 2 hours [低温: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$] [高温: $105^{\circ}\text{C} \pm 3^{\circ}\text{C}$] [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: $35 \pm 2^{\circ}\text{C}$ 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 $35 \pm 2^{\circ}\text{C}$] [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°C [焊锡时间: 3~5秒] [焊锡温度: 245±5°C]	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°C [焊锡时间: 5~10秒] [焊锡温度: 260±5°C]	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 $\leq 10\text{N/S}$, until they separate 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 $\leq 10\text{N/S}$, 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 ($\leq 10\text{N/S}$), 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 $\leq 10\text{N/S}$, 公母紧配为止]	3.5 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 $\leq 10\text{N/S}$ 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 $\leq 10\text{N/S}$, 将端子从孔位中拉出]	7 N Min. Only per termial [单一端子]