

规格书 SPECIFICATION

1. DESIGNATION	系列: A12580M
2. MODEL	名称: 1.25mm pitch Wire to Housing Connectors
3. CONSTRUCTION DIMENSION 结构尺寸:	See the attached drawings见图
4. Voltage Rating 额定电压:	50V AC or DC

5. ELECTRICAL PERFORMANCE: 电气性能

Test Description: 测试说明		Test Condition: 测试条件	Requirement: 要求
5.1	Contact Resistance 接触电阻	Being measured at 1KHz small current contact 在 1KHZ 小电流下测量.	20mΩ max.
5.2	Insulation Resistance 绝缘电阻	Measurements application shall of DC500V terminals and across terminals and frame for 1 minute. 在端子之间和端子与壳之间加 DC 500V 条件下, 持续1 分钟 测量.	100MΩ min.
5.3	Dielectric Withstanding Voltage 耐电压	Mate connectors, apply 500V AC (rms) for 1 minute between adjacent terminal or ground. 在相邻端子或接地之间施加500V AC (rms) 1分钟	No Damage on function

6. MECHANICAL CHARACTERISTICS. 机械性能.

Test Description: 测试说明		Test Condition: 测试条件	Requirement: 要求
6.1	Crimping Pull Out Force 线材与端子拉力	Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of 25 ± 3mm/minute. 固定压接端子, 以25±3mm/分钟的速度在导线上施加轴向拉 出力	AWG#26 2.0kgf min. AWG#28 1.0kgf min. AWG#30 0.5kgf min.
6.2	Insertion force between terminal and plastic 端子与塑胶的插入力	Insert a crimped terminal into the housing. 将一个被压紧的端子插入到壳体中	Insertion force 0.5 kg max. 插入力最大 0.5 Kg
6.3	Holding force between terminal and plastic 端子与塑胶的保持力	Apply axial pull out force at the speed rate of 25±3mm/minute on a crimped terminal assembled in the housing. 以25±3mm/分钟的速度对组装在外壳内的压接端子施加轴向 拉拔力。	Retention Force 1.0 kg min. 保持力最小 1.0 Kg
6.4	Pin holding force Pin针的保持力	Apply axial pull out force at the speed rate of 25±3 mm/minute on a header pin assembled in the header housing. 以25±3mm /分钟的速度对装配在头壳中的头销施加轴向拉拔 力。	Retention Force 0.3 kg min. 保持力最小 0.3Kg
7.1	Retaining force of snap 卡扣的保持力	withdraw connectors at the speed rate of 25±3mm/minute. 拔出连接器速度为25±3mm/分钟。	Please check serial number 10.1 for re qui rements 要求请查看序号10.1
7.2	Engaging and separating forces of connector 插拔力	Insert and withdraw connectors at the speed rate of 25 ± 3mm/minute. 以 25±3mm/分钟的速度对连接器插拔	Please check serial number 10 for requi rements 要求请查看序号10
7.3	Vibration 振动测试	Amplitude: 1.5mm P-P Sweep time: 10-55-10 Hz in 1 minute Duration: 2 hours in each X.Y.Z. axes 振幅: 1.5mm P-P 扫描时间: 1分钟内 10-55-10 Hz 持续时间: 每次2小时 X.Y.Z. 轴	Appearance: No Damage Contact Resistance: 40MΩ max. Discontinuity: 1sec. max. 外观: 无损坏 接触电阻: 最大40MΩ 不连续性: 1μsec 最大 值

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9.1	LIFE TEST 寿命试验	30 cycles of operation at a rate of 20-30 cycles per minute with unloading. 无负载条件下,每分钟20-30次的速度操作30次。	Appearance:No Damage Contact Resistance:40M Ω max. 外观:无损坏 接触电阻:最大40M Ω 。
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8. ENVIRONMENTAL PERFORMANCE: 环境性能

Test Description: 测试说明		Test Condition: 测试条件	Requirement: 要求
8.1	Heat Resistance 耐热性	After 96 hours of testing at $105 \pm 2^{\circ}\text{C}$, keep it for 30 minutes under normal conditions. 在 $105 \pm 2^{\circ}\text{C}$ 下测试96小时后,在正常条件下保持30分钟	Appearance:No DamageContact Resistance:40M Ω max. 外观:无损坏 接触电阻:最大40M Ω
8.2	Cold Resistance 耐寒性	After 96 hours of testing at $-40 \pm 2^{\circ}\text{C}$, keep it for 30 minutes under normal conditions. 在 $-40 \pm 2^{\circ}\text{C}$ 下测试96小时后,在正常条件下保持30分钟	Appearance:No DamaeContact Resistance:40M Ω max. 外观:无损坏 接触电阻:最大40M Ω
8.3	Humidity Resistance 耐湿性	The test shall be conducted after 96 hours in an environment with temperature of $60 \pm 2^{\circ}\text{C}$ and humidity of 90-95%, and then 30 minutes in a normal environment. 在温度 $60 \pm 2^{\circ}\text{C}$,湿度90-95%环境中放96小时,再放在正常环境中30分钟后进行测试。	Appearance:No DamageContact Resistance:40M Ω max. Insulation resistance.100M Ω min. 外观:无损坏 接触电阻:最大40M Ω 绝缘电阻:100M Ω min
8.4	Temperature Cycling 温度循环	4~5 cycles of: (a) -40°C 30 minutes (b) $+105^{\circ}\text{C}$ 30 minutes 环境中循环4~5次后,再置于正常环境中30分钟后进行测试。	Appearance:No DamageContact Resistance:40M Ω max. 外观:无损坏 接触电阻:最大40M Ω 。
8.5	Salt Spray 盐雾试验	48 ± 4 hours exposure to a salt spray from the $5 \pm 1\%$ solution at $35 \pm 2^{\circ}\text{C}$. 在 $35 \pm 2^{\circ}\text{C}$ 下暴露于 $5 \pm 1\%$ 溶液的盐雾中 48 ± 4 小时。 After test,salt deposit shall be removed by running water. 实验后的盐沉积物后水冲掉	No remarkable corrosion shall be recognized in metal part. 金属件上没有腐蚀斑点

9. OTHERS: 其它.

Test Description: 测试说明		Test Condition: 测试条件	Requirement: 要求
9.2	Temperature Rise 温升	Carrying rated current load 1.3A. 承载额定电流负载1.3A。	30°C max.

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10. INSERTION/WITHDRAWAL FORCE:插入/拔出力

No. of circuits	Insertion (kgf max.)	Withdrawal (kgf min.)
10	2.4	0.15
12	2.88	0.18
14	3.36	0.21
16	3.84	0.24

10.1 Retaining force of snap卡扣的保持力

pin number	Retaining force of snap
8-12pin	2.0kgf
14-20pin	5.0kgf
22-28pin	7.0kgf
30-36pin	8.0kgf
38-42pin	10.0kgf

DGN. 制表人: Peng Liang

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