

规格书

Product Specification [产品规格书]:	ISSUED BY: Engineering Dept	
Subject [主题]: 3.50mm Pitch 3501 Series Connector Specification	Date Issued	2022/10/18
	Date Revised	2022/10/18

This specification is referred to the 3.50mm series wire to board connector

索引【INDEX】

1. 适用范围【Scope】
2. 规格与料号【Spec and Part number】
3. 材质与表面处理【Disposal of Material and surface】
4. 额定等级【Ratings and applicable wires】
5. 性能【Performance】
 - 5-1. 电气的性能【Electrical Performance.】
 - 5-2. 机械的性能【Mechanical Performance】
 - 5-3. 环境性能及其它【Environmental Performance and Others】

东莞市翰皓精密电子有限公司
DONGGUAN HANHAO PRECISION ELECTRONIC CO., LTD

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【1.适用范围 Scope】

此种规格包括 3.50mm Pitch 3501 Series 连接器规格说明。

This Specification Covers the 3.50mm Pitch 3501 Series Connector Specification.

【2.规格与料号 Spec and Part number】

规格内容 Specification	产品料号 Production No.	产品图示 Picture of Product
端子/Terminal	H3501T	NONE
胶壳/Housing	H3501H-2*XX	NONE
针座/Wafer	H3501WR--XXXX	NONE

【3.材质与表面处理 Disposal of Material and surface】

规格内容 Specification	材质 Materials	表面处理 Disposal of Surface
端子/Terminal	磷铜/Phosphor Bronze	镀锡/Tin
胶壳/Housing	PA	UL 94V-0
针座/Wafer	Base PA66	UL 94V-0
	PIN 黄铜/Brass	Over Tin80μ" / Over 30μ" Nickel

(上述参数请以工程图为准/Please Refer to the Project drawing for the above Specification)

【4. 额定等级 Ratings and applicable wires】

项目【Item】	规格【Standard】	
额定电压 Rated Voltage (Max.)	300V	[AC/DC]
额定电流 Rated Current (Max.)	7A	
使用温度范围 Ambient temperature Range	-30°C~+85°C	
适用线径 Applicable wire insulation O.D	AWG 16-18# Insulation O.D. 2.50mm(Max.)	

【 *升温时含端子.Including terminal temperature rise. 】

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【5.性能 PERFORMANCE】

5-1. 电气的性能 Electrical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-1-1 接触阻抗 Contact Resistance	公母配合,开放电压 20mV 以下,电流 1mA 检测 Mate connectors, measure by dry circuit, 20mV MAX, 1mA. (Based upon EIA-364-06A).	30 milliohms Max.
5-1-2 绝缘阻抗 Insulatio Resistance	公母配合,在相邻端子之间,使用 500V 的直流 电,检测连接器. Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)	1000 Megohms Min.
5-1-3 耐电压 Dielectric Strength	公母配合,在相邻端子之间,使用 1500V 的交 流电 1 分锺,检测连接器. Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	没有闪燃,绝缘破损

WRITTEN BY: James

APPROVED BY: Tommy

Sheet: 3 of 6

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5-2. 机械的性能 **Mechanical Performance.**

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-2-1	重复插拔 Repeated Insertion/ Withdrawal	将公母插拔 30 次. When mated up to 30 cycles repeatedly	接触阻抗 Contact Resistance	30 milliohms Max.
5-2-2	耐振动性 Vibration	单振幅:0.75mm P-P 频率: 10~55 HZ 持续时间: 三个方向, 每轴向 2 小时 Amplitude: 0.75mm P-P Sweep time: 10~55 HZ Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			瞬断 Discontinuity	1 micro-second Max
5-2-3	机械冲击 Mechanical Shock	半正弦波在 X.Y.Z 上 3 个方向上,以 490m/s ² (50g 的力量) 冲击下各 3 回 . 持续时间: 11ms 490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			瞬断 Discontinuity	1 micro-second Max

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5-3. 环境性能及其它 Environmental Performance and Others.

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-1	耐热性 Heat Resistance	85±2℃,48 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.
5-3-2	耐寒性 Cold Resistance	-30℃,48 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.
5-3-3	耐湿性 Humidity	温度: 40±2℃ 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2℃ Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.
5-3-4	耐湿性 Humidity	温度: 60±2℃ 湿度: 95%(RH) 持续时间: 48 hours Temperature: 60±2℃ Relative Humidity: 95% Duration: 48 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.

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5-3-5	温度变化 Temperature Cycling	-55℃: 30 分钟→5~35℃: 10~15 分钟 →+85℃: 30 分钟→5~35℃: 10~15 分钟 循环 5 次. 5 cycles of: a) -55℃ 30 minutes. b) 5~35℃ 10~15 minutes c) +85℃ 30 minutes. d) 5~35℃ 10~15 minutes (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.
5-3-6	热冲击 Thermal shock	在+85±2℃放置 1 小时, 然后在-30±2℃放置 1 小时, 从+85±2℃到-30±2℃为一个循环, 进行 10 个循环, 温度切换最大 5 分钟内完成。	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			绝缘阻抗 Insulation Resistance	1000Megohms Min.
5-3-7	焊锡附着性 Solder- ability	焊接时间: 3±0.5 秒. 焊接温度: 245±5℃. Soldering Time: 3±0.5second. Solder Temperature: 245±5℃. (Based upon EIA-364-52)	Solder Wetting	浸渍面积需 95%以上 95% of immersed area must show no voids, pin holes.
5-3-8	焊锡耐热性 Solder- Resistance	焊接时间: 5~10 秒. 焊接温度: 250±5℃. Soldering time: 5~10 sec solder. Temperature: 250±℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage

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Sheet: 6 of 6