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	Date Issued	2025-08-21	Prepared by	AShu
	Date revised	2025-08-21	checked by	Sangshen
Product Specification	Rev. No.	A0	Approved by	Willy
Title : 2.54mm Pitch X9555-C Series Connector				

1. SCOPE (适用范围)

This specification covers the performance, tests and quality requirements for the 2.54mm series wire to board connector. (XKB Connection 本规范涵盖了盖 2.54mm 系列线对板连接器性能、测试和质量要求)

2. PRODUCT DESCRIPTION (产品描述)

DESCRIPTION (描述)	Part Number (料号)
2.54mm IDC Connector	X9555HI-2x20C-PTAUN
	X9555H1-2x20C-PTV01
	X9555H2-2x20C-PTV01
	X9555H3-2x20C-PTV01

3. APPLICABLE DOCUMENT (适用文件)

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence. (XKB Connection 下列文件构成本规范的一部分，在此规定的范围内。本规范要求与产品图纸有冲突时，以产品图纸为准。如果本规范的要求与参考文件发生冲突，应以本规范为准。)

4. REQUIREMENTS (要求)


4.1. Design and Structure (设计和结构)

Product shall be of the design, structure and physical dimensions specified on the applicable product drawing. (XKB Connection 产品的设计、结构和物理尺寸参考所适用的产品图纸)

4.2. Materials/ Finish (材料/表面处理)

Specification 规格内容	Materials 材质	Disposal of Surface 表面处理
Housing 胶壳	PBT	UL94V-0
Lock Lever 锁扣	PBT	UL94V-0
Terminal 端子	Brass	Gold flash over nickel

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

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4.3. Ratings (额定功率)

XKB Connectivity Item (项目)	Standard (标准)	
Rated Voltage (Maximum) 额定电压	250V	AC/DC
Rated Current (Maximum) 额定电流	1A	
Ambient temperature Range 使用温度范围	-45°C ~ +125°C From -45 to +125 degree centigrade	
Applicable wire insulation O.D 适用线径	AWG 28#	
NOTE备注 : Including terminal temperature rise 升温测试时含端子		

5. TEST STANDARD (测试条件)

5.1 Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows (除另有说明外，用以进行测量和测试的标准环境条件范围如下)

Ambient temperature (环境温度) : 5°C to 35°C

Normal humidity (正常湿度) : 45% to 85%

Air pressure (气压) : 86Kpa to 106Kpa

5.2 However if doubt arises on the decision based on the measured Values under the above-mentioned Conditions. The following conditions shall be employed: (但是在对判定产生疑问时，按下述状态实施)

Temperature (温度) : 20±2°C


Relative humidity (相对湿度) : 65±5%

Air pressure (气压) : 86Kpa to 106Kpa

6. PERFORMANCE AND TEST DESCRIPTION (性能和测试类型)


6.1 APPEARANCE (外观)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	Appearance (外观)	Visual. (目视)	Should not have any flaw Scratch discoloration and crushed (无任何裂痕、刮伤、 污染和变形)

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6.2 ELECTRICAL (电气)


ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	contact resistance (接触阻抗)	Mate applicable and measure by dry circuit · 20mV MAX · 10mA. (适合嵌合状态 ; 开放电压 20mV 以下 ; 短路电流 10mA 的状态下测定)	Initial (初始) : 20 mΩ Max.
2	Insulation Resistance (绝缘阻抗)	Based upon EIA-364-21B/MIL-STD-202 Method 302 Cond. B Mate connectors, apply 500V DC between adjacent terminal or ground. (公母配合, 在相邻端子, 端子与地片之间, 使用 500V 的直流电, 检测连接器)	1000 MΩ Min.
3	Dielectric strength (耐电压)	Based upon EIA-364-20A/MIL-STD-202 Method 301 Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (公母配合, 在相邻端子, 端子与地片之间, 使用 500V 的交流电 1 分钟, 检测连接器)	There shall be no breakdown. (无击穿、跳火现象)

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6.3 MECHANICAL (机械)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	Insertion and Withdrawal Force (插入力及拔出力)	Insert and extract applicable at the speed rate (用每分钟 25±3mm 的速度; 平行地插入、拔出)	Refer to paragraph 8 (参照第 8 项)
2	Repeated Insertion/Withdrawal (重复插拔)	When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute. (以每分钟不超过 10 次的速率, 将公母插拔 30 次.)	Contact Resistance (接触阻抗): 40 mΩ Max.
3	Vibration (耐振动性)	Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A Amplitude (振幅): 1.5mm P-P Sweep time (频率): 10~55~10 HZ in 1 minute Duration (持续时间): 2 hours in each X.Y.Z axials. (每轴向 2 小时)	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗: 40 mΩ Max. Discontinuity 瞬断: 1 micro- second Max.
4	Shock (耐冲击性)	490m/s2{50G} · 3 strokes in each X.Y.Z. axes. (DC 1mA 通电状态下; 嵌合轴沿相互垂直的 6 个方向; 以 490m/s2{50G}冲击; 各 3 次)	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗: 40 mΩ Max. Discontinuity 瞬断: 1 micro- second Max.

6.4 ENVIRONMENTAL (环境)

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ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	Temperature Rise (温升测试)	Carrying rated current load.(适合嵌合状态; 最大容许电流通电, 温度测定)	30°C Max.
2	Heat Resistance (耐热性)	Based upon MIL-STD-202 Method 108A Cond.A 125±2°C,96 hours.	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗:40 mΩ Max.
3	Cold Resistance (耐寒性)	Based upon EIA-364-105 -45±5°C,96 hours.	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗:40 mΩ Max.
4	Humidity (耐湿性)	Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B Temperature (温度) : 40±2°C Relative Humidity (湿度) : 90~95% Duration (持续时间) : 96 hours	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗:40 mΩ Max Insulation Resistance 绝缘阻抗: 100 MΩ min. Dielectric Strength 耐电压:500V
5	Temperature Cycling (温度循环)	Based upon EIA-364-32B 5 cycles of: a) -55°C 30 minutes. b) +85°C 30 minutes. (从-55°C持续 30 分钟升至+85°C持续 30 分钟, 循环 5 次)	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗:40 mΩ Max.
6	Salt Spray (盐水喷雾)	Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B 24±1 hours exposure to a salt spray from the 5±1% solution at 35±2°C. (在温度 35±2°C, 盐水浓度 5±1%下, 盐水喷雾 24±1 小时) 注: 此项测试只针对先冲后镀端子	Appearance 外观: No Damage 无异状 Contact Resistance 接触阻抗:40 mΩ Max.
7	Solder-ability (焊锡附着性)	Based upon EIA-364-52 Soldering Time 焊接时间: 3±0.5second. Solder Temperature 焊接温度: 245±5°C.	Immersed area must show no voids, pin holes. 浸渍面积需95%以上

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8	Solder- Resistance (焊锡耐热性)	Based upon EIA-364-56A Soldering time 焊接时间:3~5 sec Solder Temperature 焊接温度:260±5 °C.	Appearance 外观: No Damage 无异状
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7.PACKAGING 包装

Please refer to the packing drawing. 请参考产品包装图纸

8.综合插入力及拔出力 INSERTION/WITHDRAWAL FORCE

PIN	插入力 (kgf)	拔出力 (kgf)	PIN	插入力 (kgf)	拔出力 (kgf)
6	< 4.0	0.5-0.2	24	< 7.0	2.0-5.0
8	< 4.0	0.5-0.2	26	< 7.0	2.0-5.0
10	< 4.0	0.5-0.3	30	< 8.0	3.0-6.0
12	< 5.0	1.0-3.0	34	< 8.0	3.0-6.0
14	< 6.0	1.0-4.0	40	< 9.0	3.0-8.0
16	< 6.0	1.0-4.0	50	< 11.0	4.0-9.0
18	< 6.0	1.0-4.0	60	< 12.0	4.0-9.0
20	< 7.0	1.0-4.0	64	< 14.0	4.0-10.0

Rev.	Description	Date revised	Created/ Revised by
A0	New Release	2025/08/22	AShu