

# Connector Datasheet

PT062103XXB1

Pitch 2.00mm pin header single row DIP SH

| Prepared: Hyde |                  | Approved: ADAM |          |
|----------------|------------------|----------------|----------|
| Checked: FEIDI |                  | Customer:      |          |
| Version        | Changed Reason   | Changed by     | Date     |
| 01             | Original version | Hyde           | 20191018 |
|                |                  |                |          |
|                |                  |                |          |

Address (India): H-601, Officer City2, Rajnagar Extension, Ghaziabad

Address (TW): 2F., NO 3, Gongye 4th RD., Hukou Shiang Hsinchu County 303-51, Taiwan

## TECHNICAL INFORMATION

### MATERIALS

- Housing: Thermoplastic High Temperature, UL 94V-0.
- Contact: Copper Alloy, Reference Drawing Description.
- Gold flash plated overall

### ELECTRICAL PERFORMANCE

- Current Rating: 2A Max. / Pin
- Voltage Rating: 30V DC Max.

### MECHANICAL PERFORMANCE

- Mating force : 220g Max. / Pin
- Unmating force: 20g Min. / Pin
- Contact Retention Force : Male: 300gf / pin Min.
- Durability : 100 cycles

### PACKING

- Box

Confidential

This is a proprietary information of PSG.  
No reproduction / copying is allowed without permission.

<https://www.psgtek.com>

**TEST REQUIREMENTS AND PROCEDURES SUMMARY**

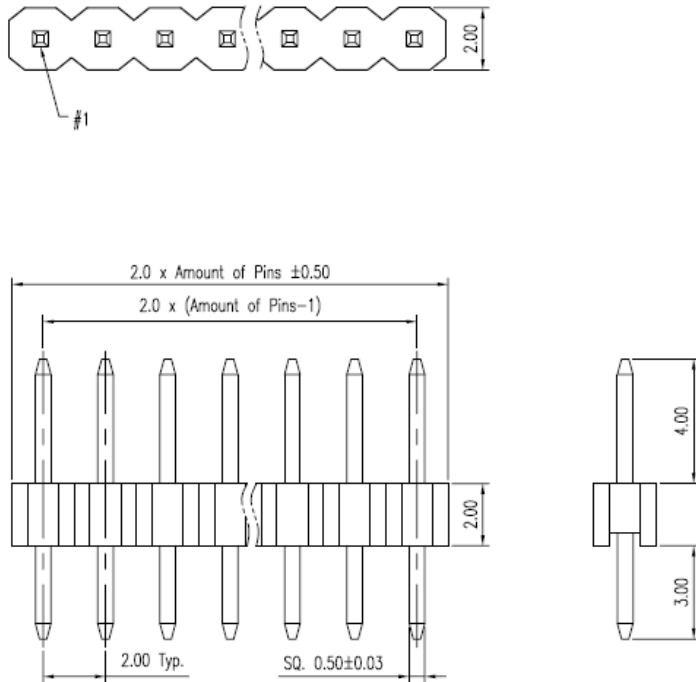
| Test Description                | Requirement   | PROCEDURED   |
|---------------------------------|---|--|
| Examination of product          | Meets requirements of product drawing and Specification.  | Visual inspection<br>No physical damage  |
| <b>Electrical</b>               |   |  |
| Contact Resistance              | 40mΩ Max.<br>After Test 60mΩ Max.   | EIA-364-23C  |
| Insulation Resistance           | 1000MΩ Min. at 500V DC /<br>2min.   | EIA-364-21-E   |
| Dielectric Withstanding Voltage | No breakdown at 500V RMS  | EIA-364-20-E   |
| <b>MECHANICAL</b>               |   |  |
| Durability                      | 100 Cycles  | EIA-364-09C  |
| Mating Force                    | 220gf Max. /Pin   | Speed 25±3mm/minute  |
| Un-Mating Force                 | 20gf Max. /Pin  | Speed 25±3mm/minute  |
| Contact Retention Force         | 300gf Min./Pin  | EIA-364-29C  |
| <b>ENVIRONMENTAL</b>            |   |  |
| Humidity                        | Meets requirements of product drawing and electrical specification.                                     | EIA-364-31C method II Condition A  |
| Salt spray                      | Meets requirements of product drawing and electrical specification.                                     | Temperature: 35°C ± 2°C<br>Density of salt water: 5 ± 1%<br>Period: 4hours   |
| Low Temperature                 | Meets requirements of product drawing and electrical specification                                      | The connector housing shall be store at temperature of -25 ± 3°C for 48hours   |
| Dry heat                        | Meets requirements of product drawing and electrical specification                                      | The connector housing shall be store at temperature of 85 ± 2°C for 96hours<br>EIA-364-17C   |
| <b>PHYSICAL</b>                 |   |  |
| Solderability                   | The test area shall be covered more than 95% of immersed area with flash solder                         | Solder Temperature: 245°C ± 5°C<br>Immersion Period: 3 ± 0.5sec.   |
| Resistance to Soldering Heat    | 1. Without deformation of case or excessive loosen.<br>2. Electrical characteristics shall be satisfied | Place the connector on the P.C. Board, then immerse the solder pin up to the surface of the board in the solder bath at 260°C ± 5°C for 5 sec.(Included 245°C ± 5°C for 10 sec.) |

Figure 1

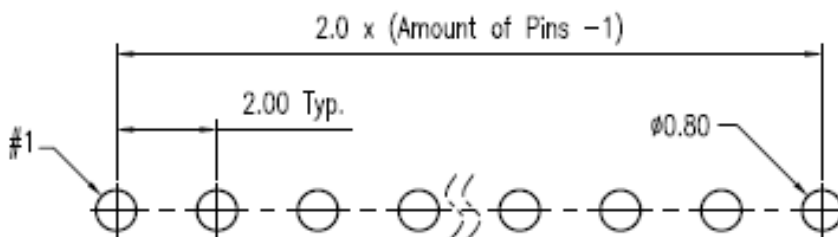
NOTE: Shall meet visual requirements, show no physical damages.

## Component Configuration and Dimensions

PT062103XXB1=> XX: Amount of Pins



## Pins assignment for PCB Layout



Recommended P.C.B. Layout  
Layout Tolerance =  $\pm 0.05$  mm

Others

Confidentiality of PSG

Note: The product specification only for standard product

Confidential

This is a proprietary information of PSG.

No reproduction / copying is allowed without permission.

<https://www.psgtek.com>