

Connector Datasheet

PT06M00001R1
 MICROSIM TOP MOUNT
 PUSH PUSH TYPE H=2.85mm

| Prepared: Hyde | | Approved: ADAM | |
|----------------|------------------|----------------|----------|
| Checked: FEIDI | | Customer: | |
| Version | Changed Reason | Changed by | Date |
| 01 | Original version | Hyde | 20191029 |
| | | | |
| | | | |

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TECHNICAL INFORMATION

MATERIALS

- Materials used in the construction of product shall be as specified on the applicable product drawing

ELECTRICAL PERFORMANCE

- A.Voltage: DC 3.6V (per pin). •
- B.Current: 0.5 A (per pin) .
- C.Operating Temperature Range: -25°C to 60°C
- D.Storage Temperature Range:-40°C to 85°C

MECHANICAL PERFORMANCE

- Card Insertion Force : Initial value:1.0Kg Max.
- Card Release Force : Initial value: 0.1Kgf Max.
- Contact Retention Force : Male: 300gf / pin Min.
- Durability : 5000 cycles

PACKING

- Reel packing

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EST REQUIREMENTS AND PROCEDURES SUMMARY

| Test Description | Requirement | PROCEDURED |
|---------------------------------|---|---|
| Examination of product | Meets requirements of product drawing and Specification. | Visual inspection No physical damage |
| Electrical | | |
| Contact Resistance | Connector contacts: Initial : 100mΩ max After test: 140mΩ max R 40mΩ max Detection switch contact Initial: 500mΩ max After test:540mΩ max | EIA-364-23C |
| Insulation Resistance | 1000MΩ Min. at 500V DC / 2min. | EIA-364-21-E |
| Dielectric Withstanding Voltage | No breakdown at 500V RMS | EIA-364-20-E |
| MECHANICAL | | |
| Durability | 5000 Cycles | EIA-364-09C |
| Card Insertion Force | Initial value:1.0Kg Max. | Speed 25±3mm/minute |
| Card Release Force | Initial value: 0.1Kgf Max. | Speed 25±3mm/minute |
| Vibration | Appearance: no damage. Discontinuity: 1 microsecond Max. | Mate dummy card and place them on the vibrator, then apply the following vibration. Then it shall be measured. In accordance with EIA-364-28 Frequency :10Hz→55Hz→10Hz. Direction : Three mutually perpendicular directions. Total amplitude : 1.50mm Sweep duration : 2 hours for each direction, a total of 6 hours. |
| Mechanical Shock | Appearance: no damage. Discontinuity: 1 microsecond Max. | Mate dummy card and place them on the vibrator, then apply the following vibration. Then it shall be measured. In accordance with EIA-364-28 Frequency :10Hz→55Hz→10Hz. Direction : Three mutually perpendicular directions. Total amplitude : 1.50mm Sweep duration : 2 hours for each direction, a total of 6 hours. |
| ENVIRONMENTAL | | |

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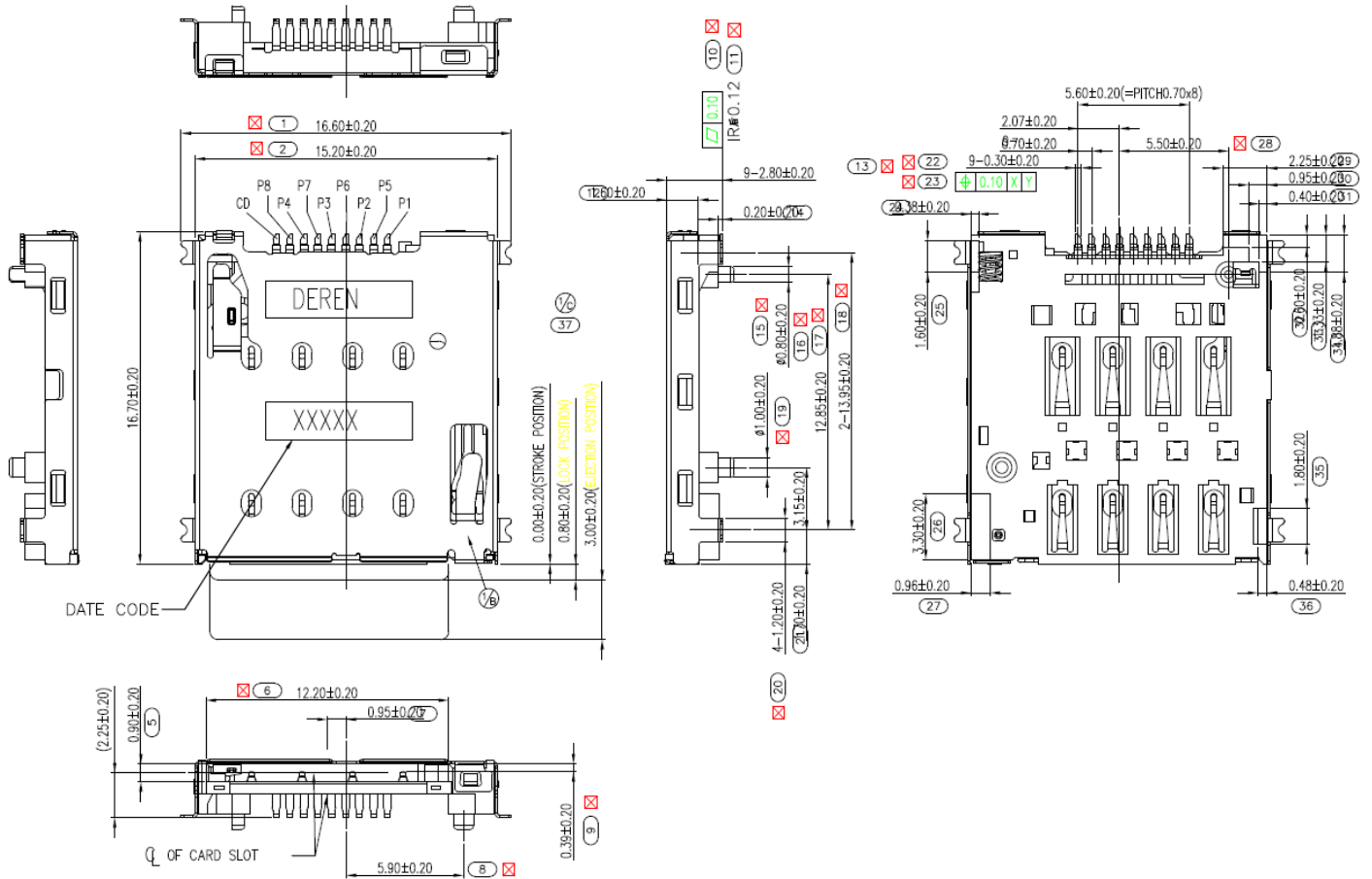
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| | | |
|------------------------------|---|---|
| Humidity | Meets requirements of product drawing and electrical specification. | EIA-364-31C method II Condition A |
| Salt spray | Meets requirements of product drawing and electrical specification. | Mate dummy card and expose them to the following environment in accordance with EIA-364-26. Temperature : $35 \pm 2^{\circ}\text{C}$ Relative Humidity: 95~98%RH Salt water density: 5+/-1 % (by weight) Duration : 24 hours |
| Low Temperature | Meets requirements of product drawing and electrical specification | The connector housing shall be store at temperature of $-25 \pm 3^{\circ}\text{C}$ for 48hours |
| Dry heat | Meets requirements of product drawing and electrical specification | The connector housing shall be store at temperature of $85 \pm 2^{\circ}\text{C}$ for 96hours EIA-364-17C |
| Thermal Cycling | No abnormality | Cycle the connector between $-15^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and $85^{\circ}\text{C} \pm 3^{\circ}\text{C}$. Ramps should be 1°C min. per minute, and dwell times should ensure the contacts reach the temperature extremes (5 minutes min.). Humidity is not controlled. Perform 100 such cycles. Follow EIA-364-110 |
| PHYSICAL | | |
| Solderability | The test area shall be covered more than 95% of immersed area with flash solder | Solder Temperature: $240^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion Period: $3 \pm 0.5\text{sec.}$ |
| Resistance to Soldering Heat | 1. Without deformation of case or excessive loosen. 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 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 5 sec.(Included $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 sec.) |

Figure 1

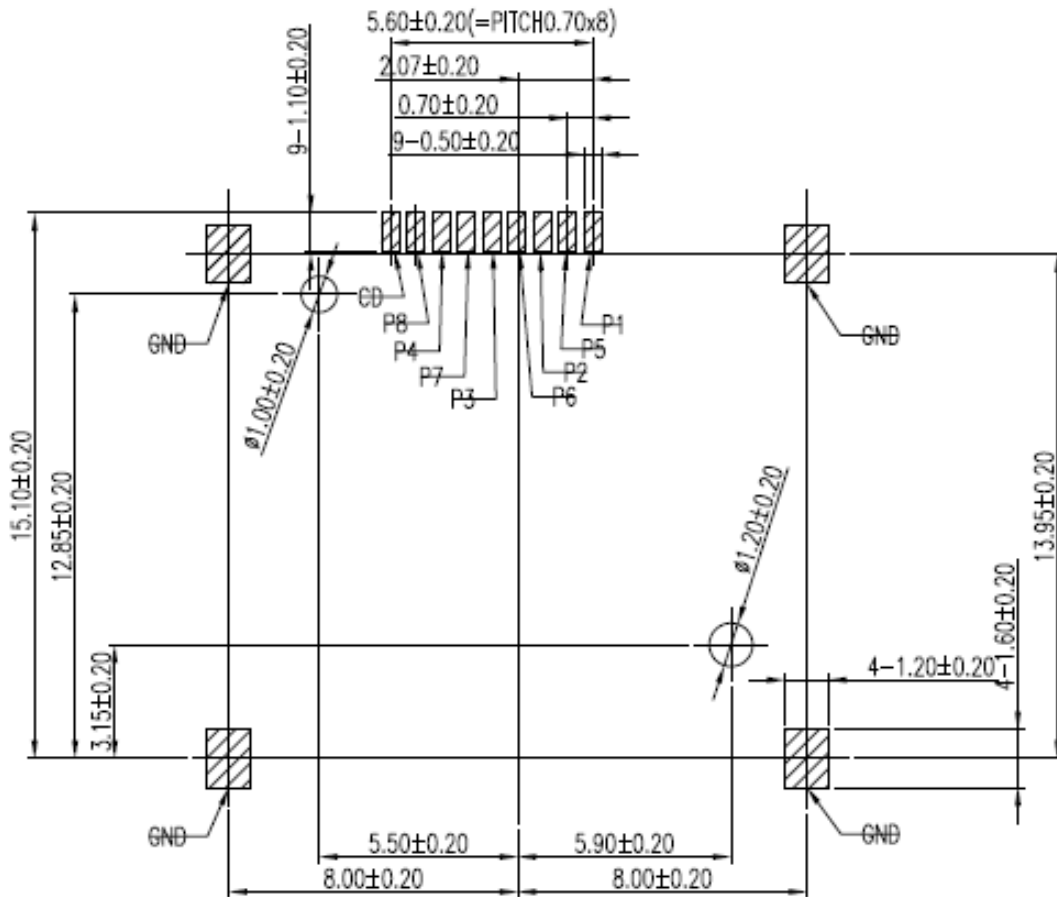
NOTE: Shall meet visual requirements, show no physical damages.

Component Configuration and Dimensions



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Pins assignment for PCB Layout



RECOMMENDED PCB LAYOUT

TOLERANCE: ±0.05mm

 PAD AREA

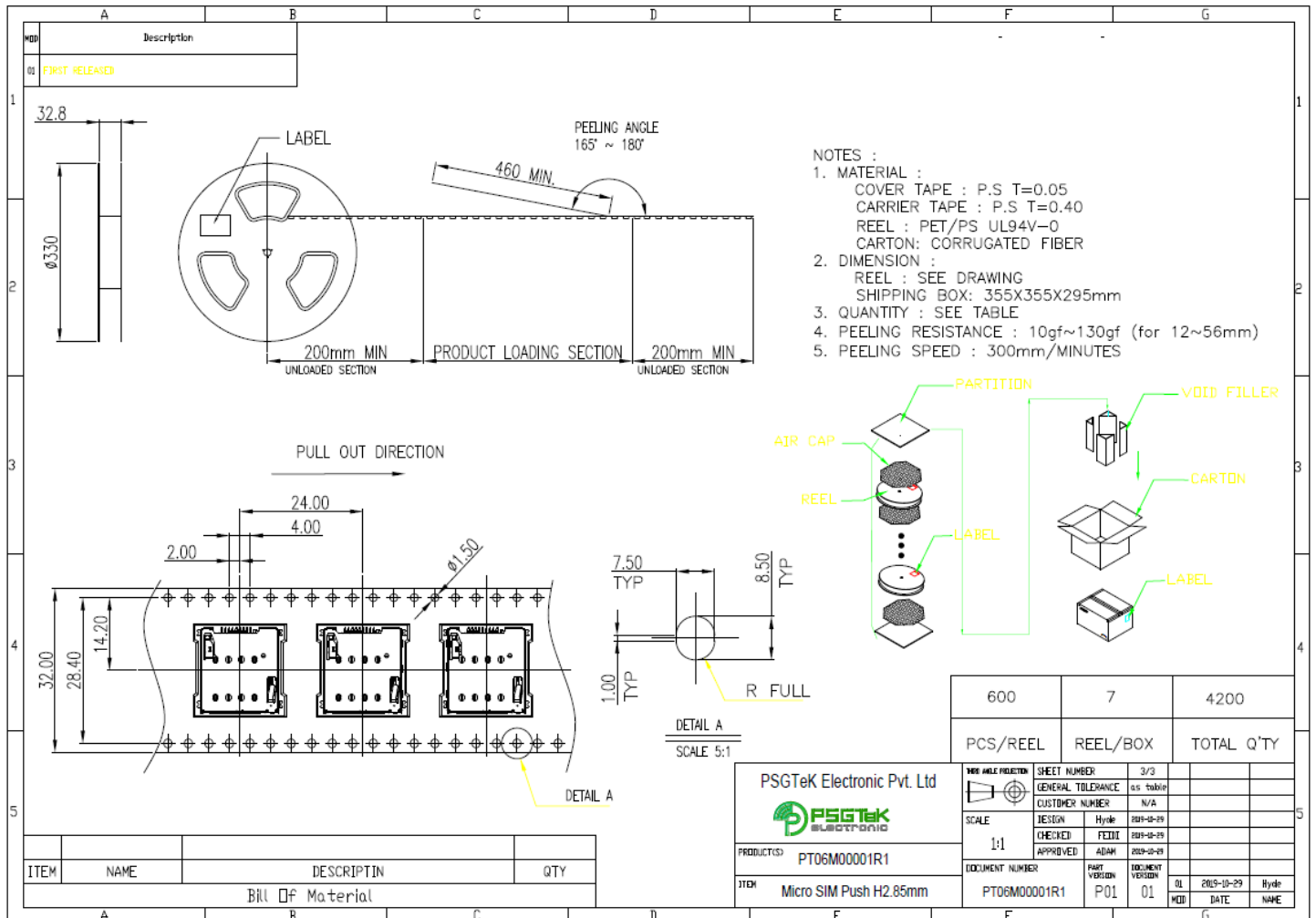
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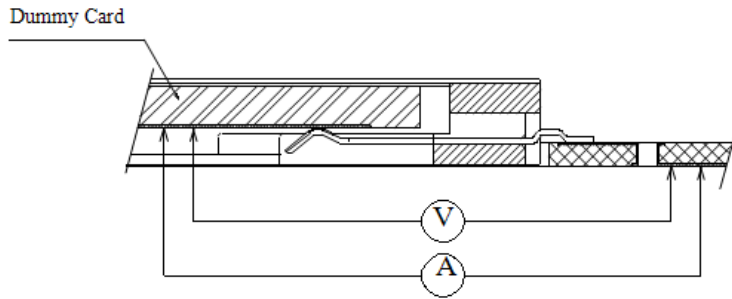
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Packing drawing

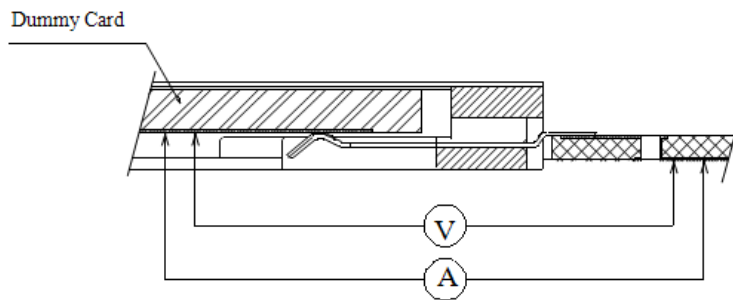


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Contact Resistance

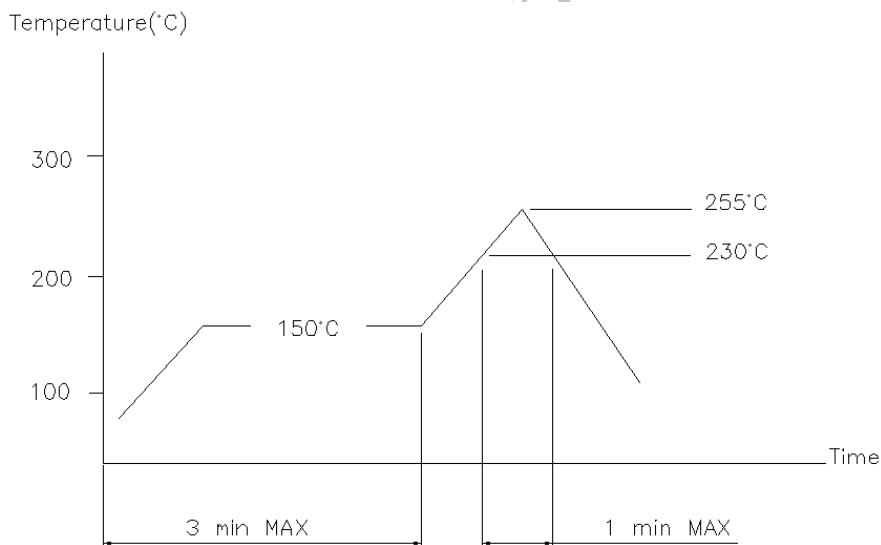


(Fig.1 Contact Resistance /)



(Fig.2 Contact Resistance /)

Resistance to flow solder heat



Note: The product specification only for standard product