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| ENGINEERING DEPT. | PRODUCT SPECIFICATION For DAUL DDR DIMM SOCKET VERTICAL TYPE of CS702002B00 | SPEC.NO.: SPCS034A |
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1. SCOPE:

This specification covers the requirements for product performance, test method and quality assurance provision of the DDR S.O DIMM SOCKET VERTICAL TYPE series.

2. APPLICABLE STANDARDS:

MIL - STD - 202 Methods for test of connectors for electronic equipment

3. PART NO.: CS702002B00

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : David APPROVED : Eisley VERIFIED : Enya .

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7. ELECTRICAL PERFORMANCE:

| | ITEM | TEST CONDITION | |
|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 7.1 | Rated current and voltage | | 0.5A 25V AC (r.m.s.) |
| 7.2 | Contact resistance | Sold connectors on PCB and mate them together measure by applying closed circuit current of 10mA maximum at open circuit voltage of 20mV maximum. | 60 mΩ Max.(Initial) 80 mΩ Max.(Final) |
| 7.3 | Dielectric strength | MIL STD.202F, Method 301 125VAC for 1minute between two adjacent contacts | No breakdown Current leakage: 0.5mA Max. |
| 7.4 | Insulation resistance | MIL STD.202F, Method 302 Impressed voltage 100 VDC between two adjacent contacts for one minutes. | 500 MΩ Min.(Initial) 100 MΩ Min.(Final) |

8. MECHANICAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 8.1 | Mating and Unmating Durability | Solder connectors on PCB, then repeat mating and unmating 25 cycles along the mating axis. | Contact resistance: 80 mΩ Max. |
| 8.2 | Contact Retention Force | Place a connectors on the push-pull machine, then apply a force on the contact head and push the contact to the opposite direction of the contact insertion at the speed of 25±3mm/min. Measure the force when the contact dislodge from insulator | 0.1kgf (1 N)/pos. Min. |
| 8.3 | Latch Retention Force | Place a connector on the pull-push machine , then apply a force on a contact head and push the latch spring to the opposite direction of the latch spring insertion at the speed of 25±3mm/min. Measure the force when the latch spring dislodges from insulator. | 0.82kgf (8 N)/pos. Min. |

9. ENVIRONMENTAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 9.1 | Heat Resistance | MIL STD.202F, Method 108A The specimens shall be subjected to a temperature of 85±2°C for 96 hours, then placed in ambient temperature for more than 1~2 hours. | No damage Contact resistance: 80 mΩ Max. |
| 9.2 | Cold Resistance | Temperature: -40±3°C for 96 hours, then placed in ambient temperature for more than 1~2 hours. | No damage Contact resistance: 80 mΩ Max. |

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| 9.3 | Vibration | MIL STD.202F, Method 201A 1.52 mm 10-55-10 HZ/minute each 2 hours for X, Y and Z directions, passing DC 1mA current during test. | Appearance: No damage Discontinuity: 1 micro second Max. Contact resistance: 80 mΩ Max. |
| 9.4 | Shock | MIL STD. 202F, Method 213B Accelerated Velocity: 490 m/s ² (50 G) Waveform: Half sine Duration: 11 m sec. Number of shocks: 3 shocks each to normal and reversed directions of X, Y and Z axes, totally 18 shocks, passing DC 1mA current during test. | Appearance: No damage Discontinuity: 1 micro second Max. Contact resistance: 80 mΩ Max. |
| 9.5 | Solder ability | Soldering time: 3 ± 0.5 second Soldering pot: 230 ± 5° | Minimum: 95% of immersed area |
| 9.6 | Resistance to soldering heat | Pre Heat: 180~200°C for 120 sec. Max. Reflow: 220°C for 40 sec. Max. Heat peak:250°C Duration: 2 cycles Refer to Para.11 | No damage |
| 9.7 | Hand Soldering | 360°C Max. 3sec. Max. | No damage |
| 9.8 | Salt spray | Temperature: 35± 1°C Solution: 5± 1% Spray time: 48± 4 hours Measurement must be taken after water rinse | No damage Contact resistance: 80 mΩ Max. |
| 9.9 | Humidity | MIL STD.202F, Method 106E Expose to the defined environment condition for 10 cycles. The test specimens shall be conditions at ambient room conditions for 1 of 2 hours, after which the specified measurements shall be performed. | No damage Contact resistance: 80 mΩ Max. Insulation resistance: 100 MΩ Min. |
| 9.10 | Thermal Shock | Mated connector -45 °C / 30 min., 85 °C / 30 min.(5 cycle) Transit time shall be within 3 min. The test specimens shall be conditions for 1 of 2 hours, after which the specified measurements shall be performed. | No damage Contact resistance: 80 mΩ Max. |

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| 9.11 | SO ² Gas | Expose to 10ppm SO ² gas, ambient temperature 25± 2°C for 24 hours. | No damage Contact resistance: 80 mΩ Max. |
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10. AMBIENT TEMPERATURE RANGE: -40 to + 85°C

11. Recommended IR Reflow Temperature Profile:

