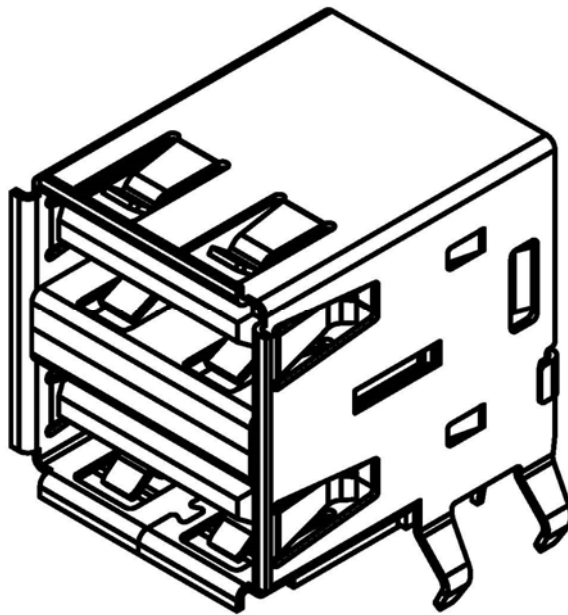


PRODUCT SPECIFICATION

| | | | | | | | |
|----------------------------|---|-----------------|-----------|----------------|-----------|-----------------|-----------|
| Part Number | USB1035 | Rev | A | Date | 18/07/11 | | |
| Product Description | USB Dual Receptacle, Type A, 8 Pin, Through Hole, Horizontal, Top Mount, with Kinked Shell Stakes | | | Page | 1 | | |
| Doc Number | USB1035 | Prepared | SA | Checked | LH | Approved | DR |



PRODUCT SPECIFICATION

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1.0 SCOPE.

This specification covers performance, tests and quality requirements for the USB Dual Receptacle USB1035 (Type A, 8 Pin, Through Hole, Horizontal, Top Mount, with Kinked Shell Stakes).

2.0 PRODUCT NAME AND PART NUMBER.

USB Dual Receptacle, Type A, 8 Pin, Through Hole, Horizontal, USB1035.

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

- 4.1 Current rating 1.5 A
- 4.2 Voltage rating 30 V
- 4.3 Operating Temperature Range -40°C TO +85°C

5.0 TEST AND MEASUREMENT CONDITIONS.

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Paragraph 6.0. All tests are performed in ambient conditions unless otherwise specified.

6.0 PERFORMANCE.

| Item | Test Condition | Requirement |
|------------------------|--|---|
| Examination of Product | Visual, dimensional and functional inspection as per quality plan. | Product shall meet requirements of product drawing and specification. |

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6.1 Electrical Performance.

| Item | Test Condition | Requirement |
|---------------------------------|---|---|
| Low level Contact Resistance | Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. In accordance with EIA-364-23. | 30 mΩ Max. |
| Insulation Resistance | Impressed voltage 500 VDC. Test between adjacent circuits of unmated connector. In accordance with EIA-364-21. | 1000 MΩ Min. |
| Dielectric withstanding Voltage | 500V AC for 1minute Test between adjacent circuits of unmated connector and in accordance with EIA-364-20. | No creeping discharge or flashover shall occur. Current leakage: 0.5 mA Max. |

6.2 Mechanical Performance.

| Item | Test Condition | Requirement |
|------------------|--|---|
| Insertion Force | Operation Speed: 12.5 mm/min. Measure the force required to mate connector and in accordance with EIA-364-13. | 3.57KGf (35N) Max. |
| Extraction Force | Operation Speed: 12.5mm/min. Measure the force required to unmate connector and in accordance with EIA-364-13. | 1.02KGf(10N) Min. |
| Durability | Operation Speed: 200 cycle/Hour Durability Cycles: 1500 Cycles In accordance with EIA-364-09. | Contact Resistance 30 mΩ. |
| Vibration | Subject mated connectors to 10-55-10 Hz traversed in 1minutes at 1.52mm amplitude 2 Hours each of 3 mutually perpendicular planes. 100mA Max. applied. In accordance with EIA-364-28D. | No electrical discontinuity greater than 1 μsec. shall occur. No damage to product. |
| Mechanical Shock | Accelerate Velocity: 30Gs Waveform: Half-sine shock plus Duration: 11msec Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks. In accordance with EIA-364-27 | No electrical discontinuity greater than 1 μsec. shall occur. No damage to product. |

PRODUCT SPECIFICATION

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| Item | Test Condition | Requirement |
|-------------------------|---|--------------|
| Contact Retention Force | Measure the contact retention force with Tensile strength tester. | 1.0 KGf Min. |

6.3 Environmental Performance and Others.

| Item | Test Condition | Requirement |
|-----------------------------------|--|--|
| Resistance to Wave Soldering Heat | Pre Heat: 150~180°C, 90±30sec. Heat: 230°C Min., 30±10sec. Peak Temp.: 260+0/-5°C, 20~40sec. Duration: 3 cycles | No physical damage shall occur. (Lead-Free) |
| Solderability | Solder pot temperature: 265±5°C, 5sec | The inspected area of each lead must have 95% solder coverage minimum. |
| Thermal Shock | Mated Connector -55°C and +85°C Perform this a cycle, repeat 10 cycles. In accordance with EIA-364-32. | Contact Resistance 30 mΩ. |
| Humidity-Temperature Cycle | Mated Connector 40°C, 90~95% RH, 168hours. In accordance with EIA-364-31. | Contact Resistance 30 mΩ. |
| Salt Spray | Subject mated connectors to 35+/-2°C and 5+/-1% salt condition for 8hours. After test, rinse the sample with water and recondition the room temperature for 1 hour. In accordance with EIA-364-26. | No detrimental corrosion allowed in contact area and base metal exposed. |

PRODUCT SPECIFICATION

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7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

| Test Item | Test Group | | | | | | | |
|---------------------------------|------------|------|------|------|------|------|------|---|
| | A | B | C | D | E | F | G | H |
| Examination of Product | 1, 9 | 1, 9 | 1, 4 | 1, 5 | 1, 5 | 1, 3 | 1, 3 | 1 |
| Contact Resistance | 4, 8 | 3, 7 | | 2, 4 | 2, 4 | | | |
| Dielectric Withstanding Voltage | 3, 7 | | | | | | | |
| Insulation Resistance | 2, 6 | | | | | | | |
| Mating Force | | 2, 6 | | | | | | |
| Unmating Force | | 4, 8 | | | | | | |
| Durability | | 5 | | | | | | |
| Vibration | | | 2 | | | | | |
| Mechanical Shock | | | 3 | | | | | |
| Contact Retention Force | | | | | | | | 2 |
| Solderability | | | | | | | 2 | |
| Resistance to Soldering Heat | | | | | | 2 | | |
| Thermal Shock | | | | 3 | | | | |
| Humidity Temperature Cycling | 5 | | | | | | | |
| Salt Spray | | | | | 3 | | | |

Notes: Numbers indicate sequence in which tests are performed. Discontinuities shall not take place in this test group, during tests.