

PRODUCT SPECIFICATION

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| No. T-2-42353 (R-2-42353) | | Date Issued: February 5, 2008 |
| Customer: | Revised: | Date Revised: |
| Title Subject: PUD Connector (Lead-free product) | | Issued by: Osaka Engineering Center |

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This product specification contains the results of performance tests for the PUD connector (Lead-free product).

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|----------------------------------|-------------------------------|----------------------------------|----------------------------------|
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1. PART NAME, PART NUMBER & DRAWING NUMBER

| Part Name | | Part Number | Drawing Number | |
|--------------------|----------------|-----------------|--|-----------|
| Contact | 001 type | SPUD-001T-P0.5 | KRD-41911 | |
| | 002 type | SPUD-002T-P0.5 | KRD-41937 | |
| Receptacle housing | | 8 to 40-circuit | PUDP-**V-() ₁ | KRD-41913 |
| Header | Top entry type | 8 to 40-circuit | B**B-PUD() ₁ S-() ₂ (LF)(SN) | KRD-41914 |

Note₁: Number of circuits in two-digit figures is indicated in **.

A character of an alphabet in color is indicated in ()₁.

The number showing boss existence is indicated in ()₂.

(None: Without boss, 1: With boss)

Note₂: (LF)(SN) as identification part number indicating lead-free product shall be displayed on a label until all products are shifted to the lead-free.

2. CONSTRUCTION, DIMENSIONS, MATERIAL & SURFACE FINISH

Construction and dimensions shall be in accordance with the referenced drawings.
Material and surface finish shall be as specified below.

| Part Name | | Material | Surface Finish, etc. |
|------------|---------|-------------------------|-------------------------------|
| Receptacle | Contact | Copper alloy | Tin-plated |
| | Housing | 66 Nylon | Flammability: UL94V-0 |
| Header | Post | Copper alloy | Copper-underplated Tin-plated |
| | Wafer | 66 Nylon (Glass-filled) | Flammability: UL94V-0 |

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3. CHARACTERISTICS

| Item | | Rated Value | |
|---|-----------------|---|-----------------|
| Current rating | | 3A (AC, DC) (Note ₃) | |
| Voltage rating | | 250V (AC, DC) | |
| Temperature range | | -25 to +85 °C (Note ₄) | |
| Applicable wire | Conductor size | 001 type | AWG#26 to #22 |
| | | 002 type | AWG#28 to #24 |
| | Conductor Spec. | Tin-plated annealed copper wire (stranded wire) | |
| | Insulation O.D. | 001 type | φ1.0 to φ1.5 mm |
| 002 type | | φ0.8 to φ1.5 mm | |
| Recommended printed circuit board (PCB) | Thickness | 1.6 mm | |
| | Hole size | See the attached drawing. (Note ₅) | |

Note₃: When AWG#22 applied.

Note₄: Including temperature rise in applying an electrical current.

Note₅: Recommended values when paper based epoxy resin PCB with drilled hole is used.
Tolerance changes depending on PCB material and piercing method.

4. ABOUT WHISKER

Although the lead-free plating of this product has performed re-flow tin plating which ensures maximum effectiveness for retarding whisker growth, it is not possible to completely eliminate the whisker problem.

5. SPECIMEN

| Part Name | | | Part Number |
|------------|----------------|---------------------------|------------------------|
| Receptacle | Contact | 001 type | SPUD-001T-P0.5 |
| | | 002 type | SPUD-002T-P0.5 |
| | Housing | | PUDP-()V-Z |
| Header | Top entry type | With boss 8- ~ 40-circuit | B()B-PUDSS-1 (LF)(SN) |

Note₆: Number of circuits in one or two-digit figures is indicated in ().

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6. TEST CONDITIONS

- 1) When tested in accordance with the test condition and method specified in each item, each requirement shall be met.
- 2) Unless otherwise specified, tests shall be conducted under the following ambient conditions specified in JIS C 60068-1 (IEC 60068-1) [Basic Environmental Testing Procedures General and Guidance].

Temperature: 15 to 35 °C

Relative humidity: 25 to 75 %

- 3) For environmental tests, as a rule, the specimen that a header and a socket are assembled for actual use and the wire of UL1061 style AWG#22 shall be used.

7. REQUIREMENTS, TEST METHODS & TEST RESULTS

7.1 Appearance

Requirement: There shall be no crack, no deformation or discoloration which may affect the performance specified in this specification.

Test method: Visual inspection.

Test result: Good.

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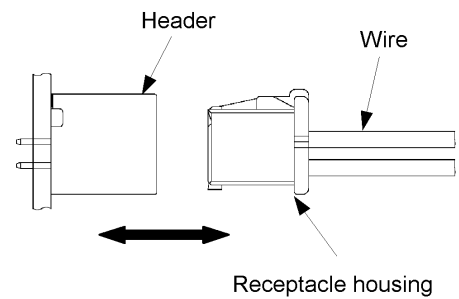
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7.2 Mechanical Performance Test

7.2.1 Insertion Force (I.F.) & Withdrawal Force (W.F.)

Requirement:

| No. of circuits | At Initial | | At 30th |
|-----------------|-------------|-------------|-------------|
| | I.F. N max. | W.F. N min. | W.F. N min. |
| 8 | 25 | 1 | 1 |
| 10 | 28 | 3 | 2 |
| 12 | 31 | 4 | 2 |
| 14 | 34 | 6 | 3 |
| 16 | 37 | 7 | 3 |
| 18 | 40 | 9 | 4 |
| 20 | 43 | 10 | 4 |
| 22 | 46 | 12 | 5 |
| 24 | 49 | 13 | 5 |
| 26 | 52 | 15 | 6 |
| 28 | 55 | 16 | 6 |
| 30 | 58 | 18 | 7 |
| 32 | 61 | 19 | 7 |
| 34 | 64 | 21 | 8 |
| 36 | 67 | 22 | 8 |
| 38 | 70 | 24 | 9 |
| 40 | 73 | 25 | 9 |



Test method: A housing with crimped contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 30th shall be measured. The housing lock device shall be removed before the test. (Testing speed: 1 to 5mm/sec.)

Test result:

| UNIT: N | | | | |
|-----------------|--------------|------|------|------|
| No. of circuits | Items | Ave. | Max. | Min. |
| 8 | Initial I.F. | 8.0 | 8.3 | 7.7 |
| | Initial W.F. | 6.0 | 6.4 | 5.6 |
| | W.F. at 30th | 4.6 | 5.0 | 4.3 |
| 10 | Initial I.F. | 10.0 | 10.5 | 9.7 |
| | Initial W.F. | 7.2 | 7.7 | 6.3 |
| | W.F. at 30th | 6.0 | 6.5 | 5.5 |
| 12 | Initial I.F. | 12.0 | 12.8 | 11.1 |
| | Initial W.F. | 8.7 | 9.5 | 8.3 |
| | W.F. at 30th | 7.2 | 7.6 | 6.8 |
| 14 | Initial I.F. | 14.2 | 14.5 | 13.8 |
| | Initial W.F. | 9.6 | 10.1 | 9.0 |
| | W.F. at 30th | 8.3 | 9.1 | 7.8 |

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Test result:

UNIT: N

| No. of circuits | Items | Ave. | Max. | Min. |
|-----------------|--------------|------|------|------|
| 16 | Initial I.F. | 16.0 | 16.8 | 15.2 |
| | Initial W.F. | 12.5 | 13.3 | 11.2 |
| | W.F. at 30th | 9.6 | 10.8 | 8.8 |
| 18 | Initial I.F. | 18.0 | 18.6 | 17.5 |
| | Initial W.F. | 13.3 | 14.1 | 12.7 |
| | W.F. at 30th | 11.1 | 11.9 | 10.5 |
| 20 | Initial I.F. | 20.3 | 20.7 | 20.2 |
| | Initial W.F. | 14.6 | 15.4 | 13.7 |
| | W.F. at 30th | 12.3 | 13.5 | 11.6 |
| 22 | Initial I.F. | 22.0 | 22.5 | 21.1 |
| | Initial W.F. | 15.9 | 16.9 | 15.2 |
| | W.F. at 30th | 13.4 | 14.4 | 12.5 |
| 24 | Initial I.F. | 23.7 | 24.2 | 23.1 |
| | Initial W.F. | 17.0 | 17.6 | 16.1 |
| | W.F. at 30th | 14.3 | 14.9 | 13.5 |
| 26 | Initial I.F. | 26.4 | 27.1 | 25.0 |
| | Initial W.F. | 19.3 | 21.0 | 17.2 |
| | W.F. at 30th | 15.5 | 16.7 | 14.6 |
| 28 | Initial I.F. | 28.8 | 30.5 | 27.6 |
| | Initial W.F. | 21.6 | 22.8 | 20.8 |
| | W.F. at 30th | 16.1 | 17.8 | 14.9 |
| 30 | Initial I.F. | 30.5 | 31.1 | 29.8 |
| | Initial W.F. | 23.9 | 24.6 | 23.1 |
| | W.F. at 30th | 18.3 | 19.3 | 17.4 |
| 32 | Initial I.F. | 31.9 | 32.4 | 31.3 |
| | Initial W.F. | 25.1 | 26.6 | 23.0 |
| | W.F. at 30th | 19.5 | 20.2 | 18.8 |
| 34 | Initial I.F. | 34.0 | 35.2 | 32.7 |
| | Initial W.F. | 25.3 | 27.4 | 22.8 |
| | W.F. at 30th | 20.5 | 21.3 | 20.1 |
| 36 | Initial I.F. | 36.6 | 39.2 | 34.7 |
| | Initial W.F. | 27.0 | 29.5 | 25.2 |
| | W.F. at 30th | 21.0 | 23.2 | 19.2 |
| 38 | Initial I.F. | 38.6 | 39.4 | 37.2 |
| | Initial W.F. | 29.1 | 30.6 | 26.1 |
| | W.F. at 30th | 21.8 | 24.0 | 20.5 |
| 40 | Initial I.F. | 40.2 | 41.4 | 39.2 |
| | Initial W.F. | 32.2 | 32.8 | 31.1 |
| | W.F. at 30th | 22.6 | 23.7 | 21.8 |

n=10

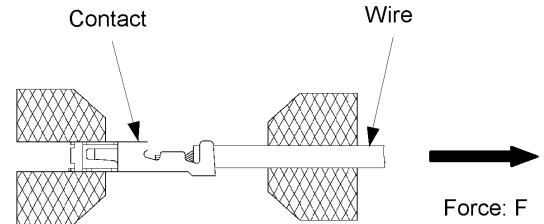
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7.2.2 Crimp Tensile Strength

Requirement:

| Wire to be used | Requirements N min. |
|-----------------|------------------------|
| AWG#28 | 9.8 |
| AWG#26 | 19.6 |
| AWG#24 | 29.4 |
| AWG#22 | 39.2 |



Test method: Pulling load shall be applied to a correctly crimped contact and a wire. The load to pull the wire out of the contact or break the wire shall be measured. (Testing speed: Approx. 25mm/min.)

Test result:

| Contact | Wire size | Measured values | | |
|----------|-----------|-----------------|------|------|
| | | Ave. | Max. | Min. |
| 001 type | AWG#26 | 39.0 | 42.1 | 37.2 |
| | AWG#24 | 56.9 | 61.5 | 53.1 |
| | AWG#22 | 74.6 | 77.2 | 69.0 |
| 002 type | AWG#28 | 26.2 | 29.7 | 23.8 |
| | AWG#26 | 38.3 | 40.7 | 34.6 |
| | AWG#24 | 54.0 | 56.6 | 51.4 |

UNIT: N

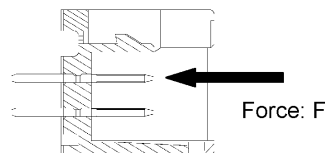
n=10

7.2.3 Post Retention Force

Requirement: 10N min.

Test method: The end of a post shall be pushed in the axial direction. The load to make the post start moving from the wafer shall be measured (Testing speed: Approx. 25mm/min.)

Top entry type



Test result:

| UNIT: N | | |
|---------|------|------|
| Ave. | Max. | Min. |
| 18.5 | 22.0 | 15.3 |

n=10

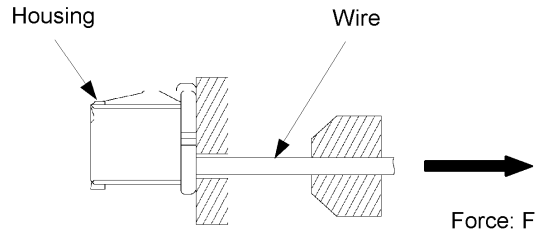
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7.2.4 Contact Retention Force

Requirement: 10N min.

Test method: A crimped contact shall be mounted in a housing and pulled in the axial direction. The load to pull the contact out of the housing shall be measured. (Testing speed: 1 to 5mm/sec.)



Test result:

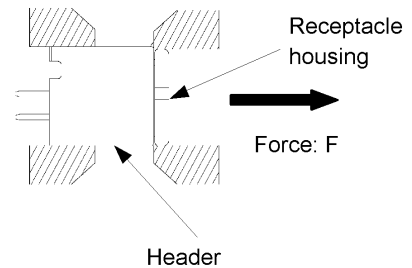
| UNIT: N | | |
|---------|------|------|
| Ave. | Max. | Min. |
| 28.1 | 30.5 | 27.0 |

n=10

7.2.5 Locking Strength

Requirement:

| No. of circuits | Requirements (N min.) |
|------------------|--------------------------|
| 8- ~ 18-circuit | 20 |
| 20- ~ 28-circuit | 25 |
| 30- ~ 40-circuit | 30 |



Test method: A housing and a header shall be mated. Pulling load shall be applied them. The load to make them come off each other shall be measured. (Testing speed: 1 to 5mm/sec.)

Test result:

| UNIT: N | | | |
|------------|------|------|------|
| | Ave. | Max. | Min. |
| 12-circuit | 49.3 | 49.5 | 49.1 |
| 26-circuit | 60.9 | 61.6 | 59.1 |
| 40-circuit | 79.1 | 79.5 | 78.7 |

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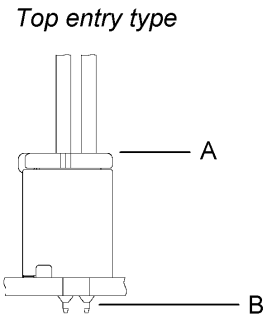
7.3 Electrical Performance Test

7.3.1 Contact Resistance

Requirement: Initial: 10mΩ max.
After tests: 20mΩ max.

Test method: Contact resistance between points A and B of a specimen assembled for actual use shown in the figure on the right side shall be measured under the following conditions.

Test current: 10mA (DC)
Open voltage: 20mV max.
Wire to be used: AWG#22



Test result: See each environmental test item.

7.3.2 Current Continuity

Requirement: There shall be no current discontinuity longer than 1 microsecond during a vibration test.

Test method: Each circuit of a specimen assembled for actual use shall be connected in series and test current of 10mA(DC) shall be applied. Current discontinuity longer than 1 microsecond during the test shall be detected by continuity meter.

Test result: See vibration test item.

7.3.3 Insulation Resistance

Requirement: Initial: 1,000MΩ min.
After tests: 500MΩ min. (Humidity & thermal shock tests)

Test method: 500V DC shall be applied between adjacent contacts of a mated specimen to measure insulation resistance. (Connectors shall not be soldered.)

Test result

| UNIT: MΩ | |
|--------------------------|-----------------|
| | Measured values |
| Initial | 1,000 min. |
| After humidity test | 500 min. |
| After thermal shock test | 500 min. |

n=10

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7.3.4 Dielectric Withstanding Voltage

Requirement: There shall be no breakdown or flashover.

Test method: Testing voltage specified below shall be applied between adjacent contacts of a mated specimen for one minute. (Connectors shall not be soldered.)

Initial: 800V AC
 After tests: 500V AC (Humidity & thermal shock tests)

Test result:

| | |
|--------------------------|------|
| Initial | Good |
| After humidity test | Good |
| After thermal shock test | Good |

n=10

7.4 Environmental Test

7.4.1 Durability

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: A housing with crimped contacts and a header shall be mated and unmated. After repeated 30 cycles, contact resistance shall be measured.

Test result:

UNIT: mΩ

| Contact resistance | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| | 4.88 | 5.1 | 4.5 | 4.97 | 5.5 | 4.5 |

n=20

7.4.2 Humidity

Requirement: Contact resistance shall be 20mΩ max. after the test. Insulation resistance shall be 500MΩ min. after the test. There shall be no breakdown or flashover on the dielectric withstanding voltage test.

Test method: The specimen shall be placed in a humidity chamber of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

Temperature: 40 ± 2 °C
 Relative humidity: 90 to 95 %
 Period: 240 hours

Test result:

UNIT: mΩ

| Contact resistance | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| | 4.76 | 5.3 | 4.5 | 4.94 | 5.7 | 4.6 |

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7.4.3 Heat Aging

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be placed in a heat oven of the following conditions. After the test, contact resistance shall be measured.

Temperature: 85 ± 2 °C
 Period: 250 hours

Test result:

UNIT: mΩ

| | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| Contact resistance | 4.87 | 5.5 | 4.6 | 5.02 | 5.9 | 4.7 |

n=20

7.4.4 Thermal Shock

Requirement: Contact resistance shall be 20mΩ max. after the test. Insulation resistance shall be 500MΩ min. after the test. There shall be no breakdown or flashover on the dielectric withstanding voltage test.

Test method: The specimen shall be subjected to a thermal shock test of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

1 cycle consists of:
 - 55 ± 3 °C for 30 minutes
 +85 ± 2 °C for 30 minutes
 Total cycles: 25 cycles

Test result:

UNIT: mΩ

| | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| Contact resistance | 4.80 | 5.2 | 4.6 | 4.95 | 5.6 | 4.6 |

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7.4.5 Salt Spray

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be subjected to a salt spray test of the following condition. After the test, it shall be washed with running water and dried naturally before the measurement of contact resistance.

Temperature: 35 ± 2 °C
 Concentration: 5 % in weight
 Period: 48 hours

Test result:

UNIT: mΩ

| Contact resistance | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| | 4.82 | 5.5 | 4.6 | 4.91 | 5.9 | 4.7 |

n=20

7.4.6 Hydrogen Sulfide Gas

Requirement: Contact resistance shall be 20mΩ max. after the test.

Test method: The specimen shall be subjected to hydrogen sulfide gas of the following conditions. After the test, contact resistance shall be measured.

Concentration: 3 ± 1 ppm
 Temperature: 40 ± 2 °C
 Relative humidity: 80 ± 5 %
 Period: 96 hours

Test result:

UNIT: mΩ

| Contact resistance | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| | 5.01 | 5.4 | 4.8 | 5.12 | 5.5 | 4.9 |

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7.4.7 Vibration

Requirement: Contact resistance shall be 20mΩ max. after the test. There shall be no current discontinuity longer than 1 microsecond.

Test method: The specimen shall be mounted on a PCB and subjected to a vibration test of the following conditions. During the test, current continuity shall be checked. After the test, contact resistance shall be measured.

Frequency: 10-55-10Hz/minute
 Amplitude: 1.52mm
 Direction: Each of X,Y,Z-axis directions
 *Each axis shall be at right angles to others.
 Period: 2 hours for each direction

Test result:

UNIT: mΩ

| Contact resistance | Initial | | | After test | | |
|--------------------|---------|------|------|------------|------|------|
| | Ave. | Max. | Min. | Ave. | Max. | Min. |
| | 4.79 | 5.2 | 4.6 | 4.89 | 5.5 | 4.7 |

| | |
|--------------------|---|
| Current continuity | There was no current discontinuity longer than 1 microsecond. |
|--------------------|---|

n=20

7.4.8 Ammonia Gas

Requirement: There shall be no stress corrosion cracking.

Test method: The mated specimen shall be subjected to an ammonia gas test of the following conditions. (Connectors shall not be soldered.) After the test, stress corrosion cracking shall be checked.

Ammonia solution: 3 % in weight
 Solution volume: 25 ml per liter of volume
 Period: 7 hours

Test result:

There was no stress corrosion cracking.

n=10

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7.5 Solder test (Header)

7.5.1 Solderability

Requirement: Plating surface of solder-dipping section of a specimen shall be covered with smooth solder.

Test method: Fluxed soldering section of the specimen shall be dipped in solder of the following conditions

| | |
|---------------------|---|
| Solder: | Sn-3Ag-0.5Cu |
| Flux: | Activation flux (CF-110VH-2A made by Tamura Kaken Corporation) |
| Solder temperature: | 245 ± 3 °C |
| Immersion period: | 3 ± 0.5 seconds |

Test result:

Good.

n=10

7.5.2 Resistance to Soldering Heat

Requirement: There shall be no deformation or damage which may affect the performance.

Test method: The specimen shall be mounted on a PCB and subjected to a resistance to soldering heat test of the following conditions.

| | |
|---------------------|---|
| Solder: | Sn-3Ag-0.5Cu |
| Flux: | Activation flux (CF-110VH-2A made by Tamura Kaken Corporation) |
| Testing PCB: | Material; Paper based epoxy resin, Pattern on one side |
| Solder temperature: | 260 ± 5 °C |
| Immersion period: | 5 ± 0.5 seconds |

Test result:

There was no deformation or damage which may affect the performance.

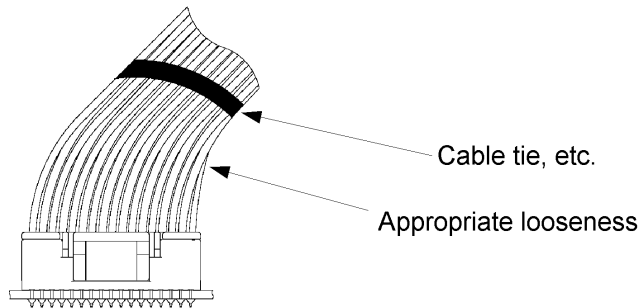
n=10

| | | |
|--|------------------------------|----------|
| Title Subject: PUD Connector (Lead-free product) | No. T-2-42353 (R-2-42353) | Revised: |
|--|------------------------------|----------|

8. NOTICE

This connector is secure lock type, so the connector must be treated with care after mated. Incorrect handling direction and excessive pulling load to wire harness may cause troubles which affect its performances such as degradation at solder tail, breakage of the connector itself (lock devise, etc.) and a mounted PCB. To prevent these troubles and make full use of the connector's performances, special care should be taken on the following points when handling wire harness.

- * Do not apply external forces to the connector continuously except for pulling load or tension when handling a wire harness as usual.
- * For wires, make the appropriate looseness to mate and unmate the connector on the mating axis without strain.



1

2

3

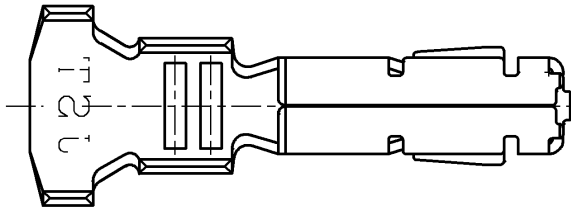
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| REV. | DESCRIPTION | DATE | DESIGNED |
|------|-------------|------|----------|
| △ | | | |

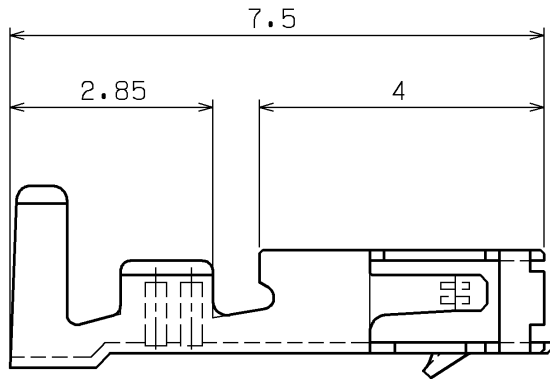
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NOTE

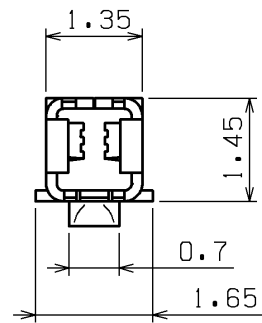
1. Unless otherwise specified, tolerances are ±0.3



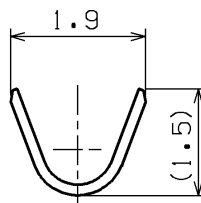
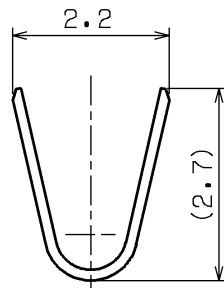
B



C



D



E

INSULATION BARREL

WIRE BARREL

| | | | | | | | |
|--------------------------------|-----------|--------------|------------|----------------|-------------|-------------|----------------|
| | | | | | | | |
| CONTACT | | COPPER ALLOY | | TIN-PLATED | | t=0.15 | |
| No. | PART NAME | MATERIAL | | SURFACE FINISH | | REMARKS | |
| SIZE | UNIT | SCALE | PROJECTION | DATE | CUSTOMER | | |
| A4 | METRIC | 10:1 | | SEP. 3.2007 | | | |
| APPROVED | | CHECKED | | DESIGNED | DRAWN | SERIES NAME | PUD CONNECTOR |
| S.K | | | | M.I | M.Y | PART No. | SPUD-001T-P0.5 |
| JST J.S.T.MFG.CO., LTD. | | | | | DRAWING No. | KRD-41911 | RO |

1

2

3

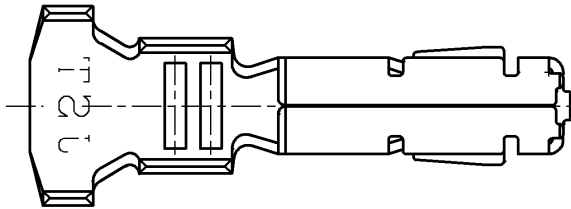
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| REV. | DESCRIPTION | DATE | DESIGNED |
|------|-------------|------|----------|
| △ | | | |

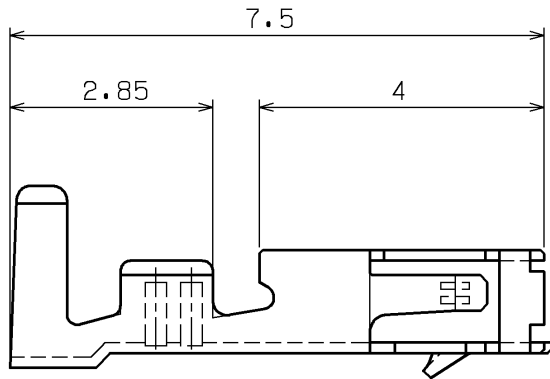
NOTE

1. Unless otherwise specified, tolerances are ±0.3

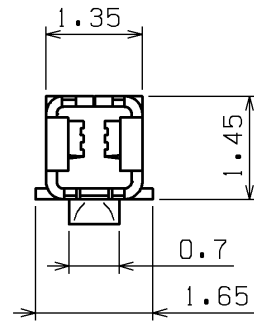
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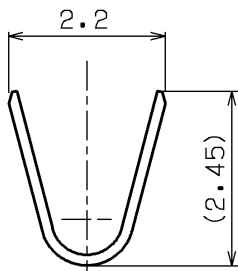
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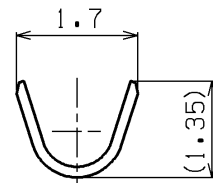
C



D



INSULATION BARREL



WIRE BARREL

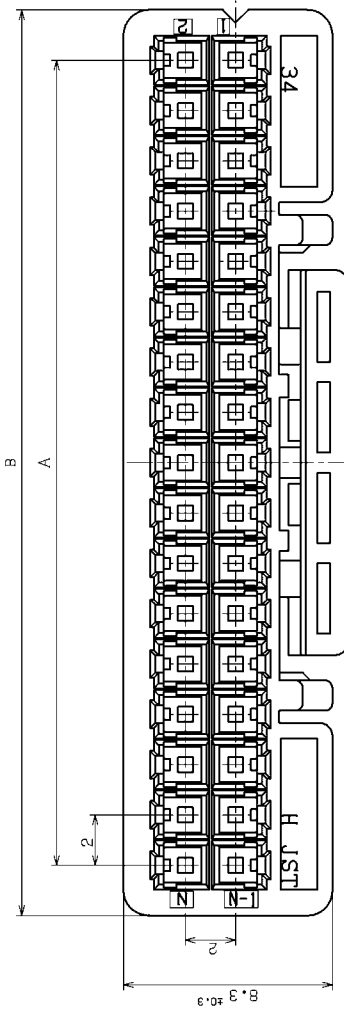
E

| | | | | | |
|--------------------------------|-----------|--------------|----------------|-------------|----------------|
| CONTACT | | COPPER ALLOY | | TIN-PLATED | t=0.15 |
| No. | PART NAME | MATERIAL | SURFACE FINISH | REMARKS | |
| SIZE | UNIT | SCALE | PROJECTION | DATE | CUSTOMER |
| A4 | METRIC | 10:1 | | SEP. 3.2007 | |
| APPROVED | CHECKED | DESIGNED | DRAWN | SERIES NAME | PUD CONNECTOR |
| S.K | | M.I | M.Y | PART No. | SPUD-002T-P0.5 |
| JST J.S.T.MFG.CO., LTD. | | | | DRAWING No. | KRD-41937 |
| | | | | | RO |

F

1 2 3 4 5 6 7 8

| | | | |
|------|----------------------------|-------------|----------|
| REV. | DESCRIPTION | DATE | DESIGNED |
| | Addition of color part No. | OCT.31.2007 | M.I |

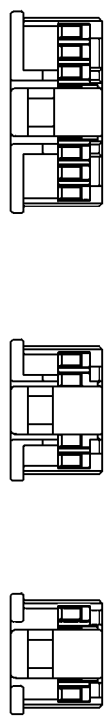
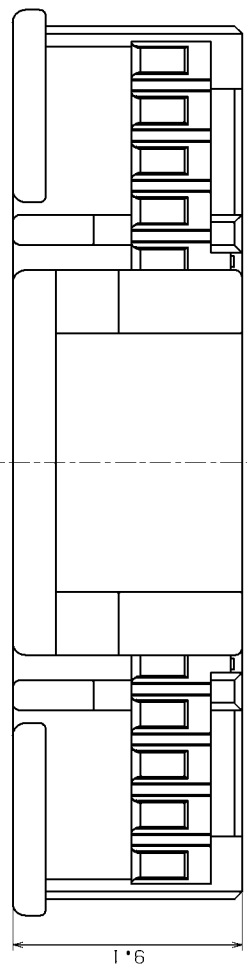
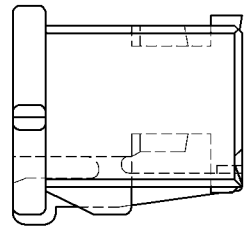


NOTE

1. Unless otherwise specified, tolerances are $0 < L \leq 5.0 : \pm 0.3$
 $5.0 < L : \pm 0.4$

| Color | Part No. |
|---------|-------------|
| Natural | PUDP-()V-S |
| Black | PUDP-()V-K |
| Red | PUDP-()V-R |
| Blue | PUDP-()V-E |

| Circuits | Dimensions | |
|----------|------------|------|
| | A | B |
| 8 | 6.0 | 10.0 |
| 10 | 8.0 | 12.0 |
| 12 | 10.0 | 14.0 |
| 14 | 12.0 | 16.0 |
| 16 | 14.0 | 18.0 |
| 18 | 16.0 | 20.0 |
| 20 | 18.0 | 22.0 |
| 22 | 20.0 | 24.0 |
| 24 | 22.0 | 26.0 |
| 26 | 24.0 | 28.0 |
| 28 | 26.0 | 30.0 |
| 30 | 28.0 | 32.0 |
| 32 | 30.0 | 34.0 |
| 34 | 32.0 | 36.0 |
| 36 | 34.0 | 38.0 |
| 38 | 36.0 | 40.0 |
| 40 | 38.0 | 42.0 |



Configuration for 8 to 10 circuits.
 Configuration for 12 to 14 circuits.
 Configuration for 16 to 18 circuits.

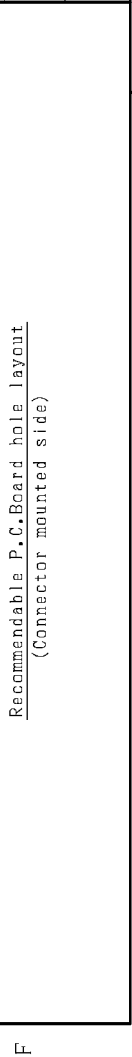
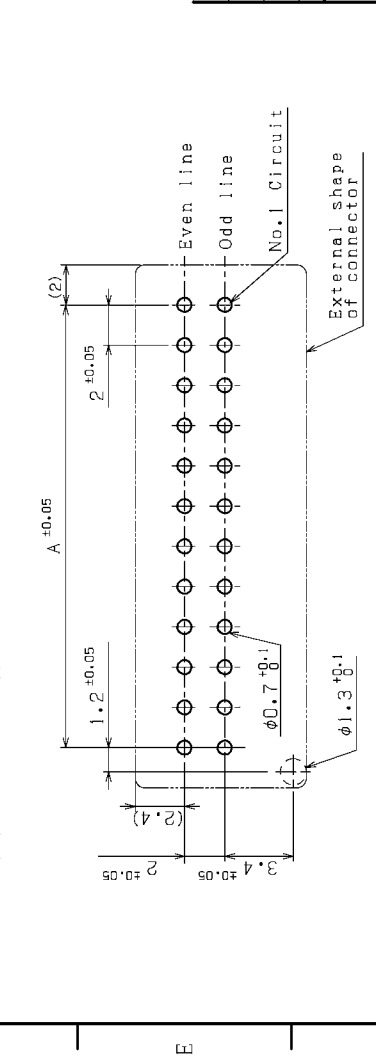
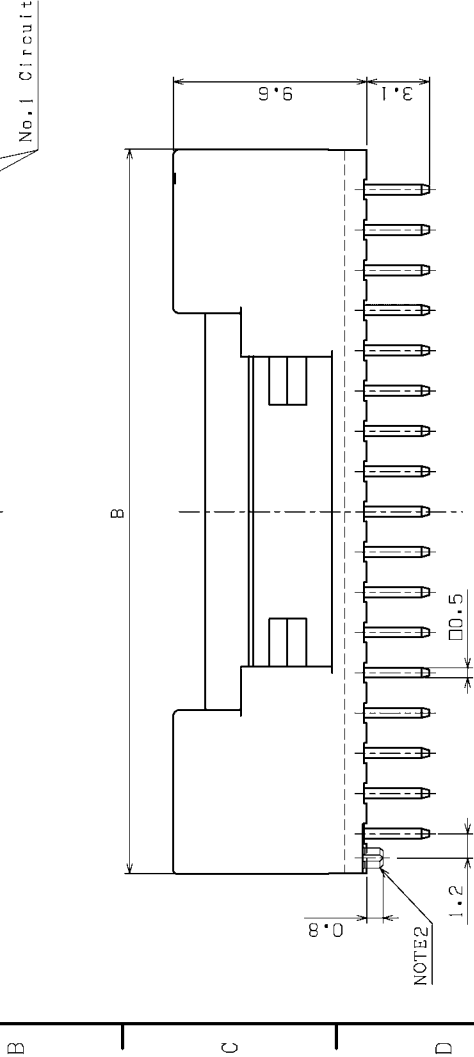
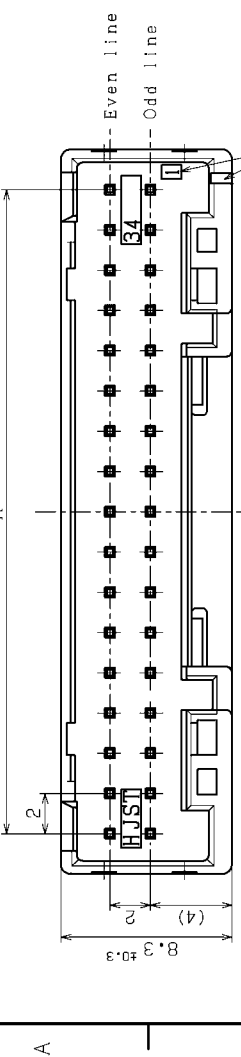
| | | | | | | | |
|----------------|------------|----------|--------------|----------------|----------|---------|---------|
| SOCKET HOUSING | | PBT | MATERIAL | SURFACE FINISH | | UL94V-0 | REMARKS |
| No. | PART NAME | SCALE | PROJECTION | DATE | CUSTOMER | | |
| A3 | METRIC 5:1 | | SEP. 3. 2007 | | | | |
| APPROVED | CHECKED | DESIGNED | DRAWN | SERIES NAME | | | |
| S.K | M.I | M.Y | M.Y | PUD CONNECTOR | | | |
| | | | | PART No. | | | |
| | | | | DRAWING No. | | | |
| | | | | KRD-41913 | | | |
| | | | | R1 | | | |



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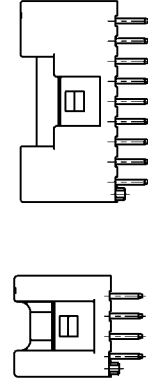
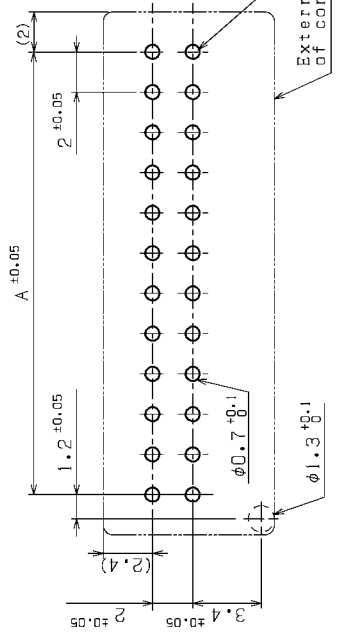
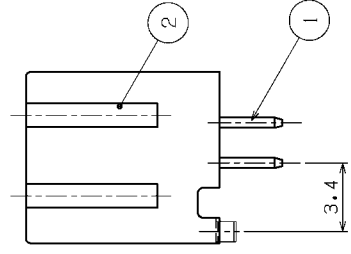
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| | | | |
|------|----------------------------|-------------|----------|
| REV. | DESCRIPTION | DATE | DESIGNED |
| △ | Addition of color part No. | OCT.31.2007 | M.I |



NOTE
 1. Unless otherwise specified, tolerances are 0.05 ± 0.3
 5.0 ± 0.4
 2. Part No. with boss : B () B-PUD () S-1 (LF) (SN)
 Part No. without boss : B () B-PUD () S (LF) (SN)

| Color | Part No. | Dimensions |
|---------|------------------------------|--------------|
| Natural | B () B-PUDSS- () (LF) (SN) | A 6.0 B 10.0 |
| Black | B () B-PUDKS- () (LF) (SN) | 10 8.0 12.0 |
| Red | B () B-PUDRS- () (LF) (SN) | 12 10.0 14.0 |
| Blue | B () B-PUDBS- () (LF) (SN) | 14 12.0 16.0 |
| | | 16 14.0 18.0 |
| | | 18 16.0 20.0 |
| | | 20 18.0 22.0 |
| | | 22 20.0 24.0 |
| | | 24 22.0 26.0 |
| | | 26 24.0 28.0 |
| | | 28 26.0 30.0 |
| | | 30 28.0 32.0 |
| | | 32 30.0 34.0 |
| | | 34 32.0 36.0 |
| | | 36 34.0 38.0 |
| | | 38 36.0 40.0 |
| | | 40 38.0 42.0 |



Configuration for 8 to 10 circuits.
 Configuration for 12 to 18 circuits.

| | | | | |
|-------------|------------|----------------|-------------------------------|----------------------------------|
| No. | PART NAME | MATERIAL | SURFACE FINISH | REMARKS |
| 2 | WAFER | 66NYLON (G.F.) | | UL94V-0 |
| 1 | POST | COPPER ALLOY | COPPER-UNDERPLATED TIN-PLATED | |
| UNIT | SCALE | PROJECTION | DATE | |
| A3 | METRIC 4:1 | 1st ANGLE | SEP. 3, 2007 | |
| APPROVED | CHECKED | DESIGNED | DRAWN | |
| S.K | | M.I | M.Y | |
| SERIES NAME | | | | PUD CONNECTOR |
| PART No. | | | | B () B-PUD () S- () (LF) (SN) |
| DRAWING No. | | | | KRD-41914 |
| CUSTOMER | | | | RI |



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