



RECOMMENDED PCB LAYOUT

| Contact Number | Signal Name | Remarks           |
|----------------|-------------|-------------------|
| 1#             | VBUS        | Power             |
| 2#             | D-          | Date-             |
| 3#             | D+          | Date+             |
| 4#             | ID          | Reserve or Ground |
| 5#             | GND         | Ground            |

**SPECIFICATIONS:**

- ELECTRICAL CHARACTERISTICS:
  - RATING: 3A(PIN1&5),0.5A(PIN2&3&4);
  - CONTACT RESISTANCE: 30 mΩ MAX.(INITIAL);
  - DIELECTRIC WITHSTANDING: 500V AC MIN.;
  - INSULATION RESISTANCE: 1000MΩ MIN.;
- DURABILITY: 5,000 CYCLES MIN.;
- INSERTION FORCE: 3.5Kgf (35N) Max.;
- EXTRACTION FORCE: 0.8Kgf (8N) Min.;
- WATER PROOFNESS: THIS PRODUCT IS BASED ON IPX8
- PLUG INTERFACE DIMENSIONS CONFORM TO USB2.0 SPEC.
- PACKAGING: TAPE & REEL.

| ITEM | PART NAME | TER'NO. | QTY. | MATERIAL     | FINISHING | REMARK |
|------|-----------|---------|------|--------------|-----------|--------|
| ③    | Shell     | —       | 1    | SUS 304      | Ni Plated | —      |
| ②    | Contact   | —       | 5    | Copper alloy | Au Plated | —      |
| ①    | Housing   | —       | 1    | PA10T        | Black     | —      |

| APPROVALS     | DATE      | TITLE         |
|---------------|-----------|---------------|
| DRAWN JKUN.LU | 2014/9/29 | USB CONNECTOR |

**HLR**  
ELECTRONICS CO.,LTD

| ECN NO. | REV. | DATE. | DESCRIPTION. | CHANGE. | CHECK. | APPRO. | TOLERANCES ARE | ANGLE | UNIT: mm | SCALE: 1:1   | PROJ: | SHEET 1 OF 1 |
|---------|------|-------|--------------|---------|--------|--------|----------------|-------|----------|--------------|-------|--------------|
| —       | A    | —     | NEW          | —       | —      | —      | 30~0.1±        | ±0.30 | —        | U-E-M5DS-W-3 | —     | —            |
| —       | —    | —     | —            | —       | —      | —      | 10~0.30        | ±0.25 | —        | —            | —     | —            |
| —       | —    | —     | —            | —       | —      | —      | 5~0.10         | ±0.20 | ±2°      | —            | —     | —            |

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