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| APPLICABLE STANDARD | | USB2.0 SPECIFICATION AND MICRO-USB CABLE AND CONNECTORS SPECIFICATION. | | | |
| RATING | OPERATING TEMPERATURE RANGE | -30°C TO +85°C | STORAGE TEMPERATURE RANGE | -30°C TO +60 °C | |
| | VOLTAGE | 30 V AC | CURRENT | SIGNAL ONLY | 1.0 A/pin |
| | | | | POWER APPLY | 1.8 A/pin (PIN No.1,No.5) 0.5 A/pin (PIN No.2-No.4) |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | | REQUIREMENTS | QT AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | X X |
| MARKING | | CONFIRMED VISUALLY. | | | X X |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz). | | 30 mΩ MAX. | X X |
| INSULATION RESISTANCE | | 500 V DC. | | 1000 MΩ MIN. | X X |
| VOLTAGE PROOF | | 100 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X X |
| CAPASITANCE | | MEASURE ADJACENT TWO CONTACTS AT 1000±10 Hz AC VOLTAGE. | | 2 pF MAX. | X — |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCES | | A MAXIMUM RATE OF 12.5 mm/min. MEASURED BY APPLICABLE CONNECTOR. | | INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN. | X — |
| MECHANICAL OPERATION | | 10000 TIMES INSERTIONS AND EXTRACTIONS. MATING SPEED - MECHANICALLY OPERATED: 500 CYCLES / h OR - MANUALLY OPERATED: 200 CYCLES / h | | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 10 mΩ FROM INITIAL VALUE. 2) INSERTION FORCE 35 N MAX. WITHDRAWAL FORCE 8 N MIN. 3) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| VIBRATION | | FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, AT 2h FOR 3 AXIAL DIRECTIONS, TOTAL 6h. | | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| RANDOM VIBRATION | | FREQUENCY 50 TO 2000 Hz AT 15 min FOR 3 AXIAL DIRECTIONS. | | | X — |
| SHOCK | | 490m/s ² DURATIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS, TOTAL 18 TIMES. | | | X — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| THERMAL SHOCK | | TEMP -55 →+15 TO +35→+85→+15TO+35 °C TIME 30 → 2 TO 3 → 30→ 2 TO 3 min UNDER 10 CYCLES. (MATING APPLICABLE CONNECTOR) | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) INSULATION RESISTANCE: 10 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| HUMIDITY LIFE | | TEMPERATURE -10~65 °C, HUMIDITY 90 TO 98 %, UNDER 7 CYCLES (168 h) (MATING APPLICABLE CONNECTOR) | | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| DRY HEAT | | EXPOSED AT 85±2 °C , 96 h. (MATING APPLICABLE CONNECTOR) | | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| COLD | | EXPOSED AT -40±2 °C , 96 h. (MATING APPLICABLE CONNECTOR) | | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X — |
| CORROSION SALT MIST | | EXPOSED AT 5 % SALT WATER, 35 °C, FOR 48h. (LEFT UNDER UNMATED CONDITION.) | | NO HEAVY CORROSION OF CONTACTS. | X — |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| REMARK HIROSE will not guarantee the performance on these specifications in case this product will be mated with the others which is not HIROSE's. Unless otherwise specified, refer to USB2.0, EIA364 or IEC 60512. | | | APPROVED | NM. NISHIMATSU | 15. 10. 27 |
| | | | CHECKED | KN. ICHIKAWA | 15. 10. 27 |
| | | | DESIGNED | TS. ITO | 15. 10. 27 |
| | | | DRAWN | AK. AKIYAMA | 15. 10. 27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-126264-30-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | ZX62D-AB-5P8 (30) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL242-0027-5-30 | △ 1/2 |

