


| | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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| △ | 1 | RE-5-1731 | OCU | JDH | 17. 08. 03 | △ | | | | | |
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| APPLICABLE STANDARD | | | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | | -55°C ~ +85°C | | | STORAGE TEMPERATURE RANGE | | -10°C ~ +50°C(Packed Condition) | | | |
| | VOLTAGE | | 50V [AC(rms) / DC] | | | OPERATING OR STORAGE HUMIDITY RANGE | | Relative Humidity 90% MAX(NOT DEWED) | | | |
| | CURRENT | | 0.5A [AC(rms) / DC] | | | APPLICABLE CABLE | | FPC (t=0.2±0.03mm) | | | |
| SPECIFICATIONS | | | | | | | | | | | |
| ITEM | | TEST METHOD | | | | REQUIREMENTS | | | | QT | AT |
| CONSTRUCTION | | | | | | | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT | | | | ACCORDING TO DRAWING | | | | O | O |
| MARKING | | CONFIRMED VISUALLY | | | | | | | | O | O |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | | | |
| CONTACT RESISTANCE | | MATE APPLICABLE FPC/FFC AND APPLY A CURRENT OF 1mA DC(OR 1,000Hz) | | | | 100mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm) | | | | O | O |
| INSULATION RESISTANCE | | MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V | | | | 500MΩ MIN. | | | | O | O |
| VOLTAGE PROOF | | MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF AC 150V FOR 1 min. | | | | NO FLASHOVER OR BREAKDOWN. | | | | O | O |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | |
| FPC RETENSION FORCE | | MEASURE BY APPLICABLE FPC/FFC(t=0.2) AT INITIAL CONDITION | | | | ①VERTICAL DIRECTION : 25gf X n MIN. ②HORIZONTAL DIRECTION : 25gf X n MIN. (n : NUMBER OF CONTACTS) | | | | O | - |
| MECHANICAL OPERATION | | 20 TIMES INSERTIONS AND EXTRATIONS | | | | ①CONTACT RESISTANCE : 100mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS | | | | O | - |
| VIBRATION | | FREQUENCY 10 ~ 55 Hz, TOTAL AMPLITUDE 1.5 mm AT 2h, IN 3 DIRECTIONS | | | | ①NO ELECTRICAL DISCONTINUITY OF 1μs. ②CONTACT RESISTANCE : 100mΩ MAX | | | | O | - |
| SHOCK | | 981m/s ² DIRECTION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS. | | | | ③NO DAMAGE,CRACK AND LOOSENESS OF PARTS | | | | O | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| DAMP HEAT(STEADY STATE) | | EXPOSED AT 40°C, 90~95 %, 96Hr. | | | | ①CONTACT RESISTANCE : 100mΩ MAX. | | | | O | - |
| RAPID CHAGE OF TEMPERATURE | | TEMPERATURE : -55 → 15~35 → +85 → 15~35 °C TIME : 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES. | | | | ②INSULATION RESISTANCE : 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | O | - |
| DAMP HEAT, CYCLE | | TEMPERATURE -10→+65 HUMIDITY : 90~95% 10 CYCLE(240Hr) | | | | ①CONTACT RESISTANCE : 100mΩ MAX. ②INSULATION RESISTANCE : 50MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | O | - |
| DRY HEAT | | EXPOSED AT 85°C, 96Hr | | | | ①CONTACT RESISTANCE : 100mΩ MAX | | | | O | - |
| COLD | | EXPOSED AT -55°C, 96Hr | | | | ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | O | - |
| CORROSION SALT SPRAY | | EXPOSED AT 35°C, 5 % SALT WATER SPRAY FOR 96Hr | | | | ①CONTACT RESISTANCE : 100mΩ MAX ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | | O | - |
| HYDROGEN SULPHIDE | | EXPOSED IN 3 PPM FOR 96Hr. (TEST STANDARD : JEIDA-38) | | | | ③NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | | | | O | - |
| RESISTANCE TO SOLDERING HEAT | | REFLOW SOLDERING PROFILE : 217°C 90~120s, 260°C MAX. | | | | ①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE | | | | O | - |
| SOLDER ABILITY | | SOLDER DIPPING TEMPERATURE 245±5°C (TEST STANDARD : MIL-STD-202) | | | | WETTING BALANCE TEST : 2s MAX. DIP & LOOK TEST : 95% MIN. A NEW UNIFORM COATING OF SOLDER | | | | O | - |
| REMARKS | CONDITIONS FOR TESTING | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | | |
| | | | | | OH.C.U 17.03.06 | OH.C.U 17.03.06 | CHO.D.H 17.03.06 | SONG.H.C 17.03.06 |  | | |
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402. | | | | | | | | | | | |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST | | | | | | | | | | | |
| HIROSE KOREA CO.,LTD. | | | SPECIFICATION SHEET | | | | PART NO. △ TF12-Series(800) | | | | |
| CODE NO.(OLD) CL | | DRAWING NO. ELC4-632304-80 | | | CODE NO. CL 6586-0022-0-800 | | | | | 1 1 | |