| | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5 | RE-5-1833 | OCU | CDH | 17. 11. 30 | △ | | | | | |
| 2 | 1 | RE-5-2459 | OCU | CDH | 20. 07. 15 | △ | | | | | |

## APPLICABLE STANDARD

| | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | −55℃ ~ +85℃ | STORAGE TEMPERATURE RANGE | −10℃ ~ +50℃(Packed Condition) |
| | VOLTAGE | 50V [AC(rms) / DC] | OPERATING OR STORAGE HUMIDITY RANGE | Relative Humidity 90% MAX(NOT DEWED) |
| | CURRENT | 0.5A [AC(rms) / DC] *(note1)* | APPLICABLE CABLE | 2 FFC/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) | 100 mΩ MAX. INCLUDING FPC/FFC BULK RESISTANCE(L=8mm) | O | O |
| INSULATION RESISTANCE | MATE APPLICABLE FPC/FFC AND APPLY A VOLTAGE OF DC 100V | 500 MΩ 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 : 0.25N X n MIN. 1 ②HORIZONTAL DIRECTION : 0.25N X n MIN. | O | – |
| MECHANICAL OPERATION | 20 TIMES INSERTIONS AND EXTRACTIONS | ①CONTACT RESISTANCE: 100mΩ MAX ②NO DAMAGE,CRACK AND LOOSENESS OF PARTS | O | – |
| VIBRATION | FREQUENCY 10 ~ 55 Hz, HALF AMPLITUDE 0.75 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℃, 90~95 %, 96Hr. | ①CONTACT RESISTANCE: 100 mΩ MAX. | O | – |
| RAPID CHAGE OF TEMPERATURE | TEMPERATURE : −55 → 15~35 → +85 → 15~35 ℃ TIME : 30 → 2~3 → 30 → 2~3 min. 5 CYCLES WITH ABOVE CONDITIONS. 1 | ②INSULATION RESISTANCE: 100 MΩ 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: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | O | – |
| DRY HEAT | EXPOSED AT 85℃, 96Hr | ①CONTACT RESISTANCE : 100mΩ MAX | O | – |
| COLD | EXPOSED AT −55℃, 96Hr | ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | O | – |
| CORROSION SALT SPRAY | EXPOSED AT 35℃, 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 | PROFILE : 250℃ MAX. 1 230℃ WITHIN 60 sec | ①NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ②NO DAMAGE OF ELECTRICAL PERFORMANCE | O | – |
| SOLDER ABILITY 1 | SOLDER DIPPING TEMPERATURE 245±5℃ (TEST STANDARD : MIL-STD-202) 3±0.3 SEC | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | O | – |

(note 1)
1 WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70% OF THE RATED CURRENT VALUE.

| REMARKS CONDITIONS FOR TESTING | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
|---|---|---|---|---|---|
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402. | OH.C.U 17. 03. 06 | OH.C.U 17. 03. 06 | CHO.D.H 17. 03. 06 | SONG.H.C 17. 03. 06 | ENG 2020.07.15 DEPT |

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST

| HIROSE KOREA CO.,LTD. | REFERENCE SPECIFICATION SHEET | PART NO. TF13BSA-SERIES (800) |
|---|---|---|

| CODE NO.(OLD) | DRAWING NO. | CODE NO. | |
|---|---|---|---|
| | ELC4-632309-80 | CL 6508-0037-2-800 | 1/1 |