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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | |
|--|---|--------------------------|---|--|----------------|
| RATING | OPERATING TEMPERATURE RANGE | -55°C TO +85°C | STORAGE TEMPERATURE RANGE | -10°C TO +50°C(PACKED CONDITION) | |
| | VOLTAGE | 40V AC/DC | OPERATING OR STORAGE HUMIDITY RANGE | RELATIVE HUMIDITY 90%MAX(NOT DEWED) | |
| | CURRENT | 0.25A (note1) | APPLICABLE CABLE | t=0.2±0.03mm, GOLD PLATING | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | × | × |
| MARKING | CONFIRMED VISUALLY. | | | × | × |
| ELECTRIC CHARACTERISTICS | | | | | |
| VOLTAGE PROOF | 120V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | × | × |
| INSULATION RESISTANCE | 100V DC. | | 500MΩ MIN. | × | × |
| CONTACT RESISTANCE | AC 20mV MAX (1KHz), 1mA. | | 100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=8mm) | × | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μ s. ② CONTACT RESISTANCE: 100mΩ MAX. | × | — |
| SHOCK | 981 m/s ² , DURATION OF PULSE 6ms AT 3 TIMES IN 3 DIRECTIONS. | | | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × |
| MECHANICAL OPERATION | 20 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| FPC RETENTION FORCE | MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.) | | ① DIRECTION OF INSERTION: 5.1 N MIN. ② VERTICAL DIRECTION OF INSERTION: 3.4 N MIN. (note 2) | × | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| CORROSION SALT MIST | EXPOSED AT 35±2°C, 5% SALT WATER SPRAY FOR 96h. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | × | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→+15 TO +35→+85→+15 TO +35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2°C, RELATIVE HUMIDITY 90 TO 95%, 96h. | | | × | — |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | | | | | |
| REMARK | | | APPROVED | NM.NISHIMATSU | 11.03.17 |
| | | | CHECKED | HS.SAKAMOTO | 11.03.16 |
| | | | DESIGNED | TY.MOGI | 11.03.11 |
| Unless otherwise specified, refer to JIS C 5402. | | | DRAWN | TY.MOGI | 11.03.11 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-336194-01 |
| | SPECIFICATION SHEET | | PART NO. | FH29BJ-34S-0.2SHW(05) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL580-0331-7-05 | 1/2 |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|-----------------------------------|--|--|----|----|
| DAMP HEAT, CYCLIC | EXPOSED AT -10 TO +65 °C RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h. | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| DRY HEAT | EXPOSED AT 85±2°C, 96h. | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| COLD | EXPOSED AT -55±3°C, 96h. | | × | — |
| SURPHUR DIOXIDE [JIS C 0090] | EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25 PPM FOR 96h. | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | × | — |
| HYDROGEN SULPHIDE [JIS C 0092] | EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 ~ 15 PPM FOR 96h. | | × | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 235±5°C FOR IMMERSION DURATION, 2±0.5 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | × | — |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING: PEAK TMP. 250°C MAX. REFLOW TMP. 230°C MIN FOR 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. (note 3) | × | — |

(note 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.

(note 2)

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED
IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

(note 3)

BLISTERS WHICH MAY OCCUR IN HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.

| | | | | | |
|--|---------------------------|-------------|----------|-----------------------|-------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-336194-01 | |
| HRS | SPECIFICATION SHEET | | PART NO. | FH29BJ-34S-0.2SHW(05) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO | CL580-0331-7-05 | △ 2/2 |