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| APPLICABLE STANDARD | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -55°C TO +85°C | STORAGE TEMPERATURE RANGE | -10°C TO +50°C(PACKED CONDITION) |
| | VOLTAGE | 30V AC/DC | OPERATING OR STORAGE HUMIDITY RANGE | RELATIVE HUMIDITY 90%MAX(NOT DEWED) |
| | CURRENT | 0.2 A | APPLICABLE CABLE | t=0.2±0.02mm, GOLD PLATING |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
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| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × |
| MARKING | CONFIRMED VISUALLY. | | × | × |

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| ELECTRICAL CHARACTERISTICS | | | | |
| VOLTAGE PROOF | 90V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | × |
| INSULATION RESISTANCE | 100V DC. | 50MΩ MIN. | × | × |
| CONTACT RESISTANCE | AC 20mV MAX (1KHz), 1mA. | 200mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=8mm) | × | × |

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| MECHANICAL CHARACTERISTICS | | | | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 200mΩ MAX. | × | — |
| SHOCK | 981 m/s ² , DURATION OF PULSE 6ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS. | | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × |
| MECHANICAL OPERATION | 10 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 200mΩ 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.) | DIRECTION OF INSERTION: 4 + 0.1 × n N MIN. (note 1) | × | — |

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| ENVIRONMENTAL CHARACTERISTICS | | | | |
| CORROSION SALT MIST | EXPOSED AT 35±2°C, 5% SALT WATER SPRAY FOR 96h. | ① CONTACT RESISTANCE: 200mΩ 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 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 200mΩ 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 |
|-------|--------------------------|----------|---------|------|
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| REMARK | APPROVED | NF.MIYAZAKI | 15.07.30 |
| | CHECKED | YN.TAKASHITA | 15.07.30 |
| | DESIGNED | YH.MICHIDA | 15.07.29 |
| | DRAWN | NM.SANPEI | 15.07.29 |

Unless otherwise specified, refer to IEC 60512.

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| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC-365495-00-00 |
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| HRS | SPECIFICATION SHEET | PART NO. | FH43MW-**S-0.25SHW(10) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL580 | △ 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: 200mΩ MAX. ② INSULATION RESISTANCE: 1MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| DRY HEAT | EXPOSED AT 85±2°C, 96h. | ① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| COLD | EXPOSED AT -55±3°C, 96h. | | X | — | |
| SULPHUR DIOXIDE [JIS C 60068-2-42] | EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h. | ① CONTACT RESISTANCE: 200mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | X | — | |
| HYDROGEN SULPHIDE [JIS C 60068-2-43] | EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h. | | X | — | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±3°C FOR IMMERSION DURATION, 3±0.3 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | — | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING: PEAK TMP. 250°C MAX. REFLOW TMP. OVER 230°C WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. (note 2) | X | — | |
| <p>(note 1)</p> <p>THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.</p> <p>(note 2)</p> <p>BLISTERS WHICH MAY OCCUR IN HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.</p> | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-365495-00-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | FH43MW-**S-0.25SHW(10) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL580 |  2/2 |