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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 | | microSD Memory Card Specifications Ver 1.10 | | 1 | |
|---|-----------------------------|--|---------------------------|--|----------------|
| RATING | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C (NOTE1) | STORAGE TEMPERATURE RANGE | -40 °C TO +85 °C | |
| | VOLTAGE | AC 125V | OPERATING HUMIDITY RANGE | 95%MAXIMUM (NON-CONDENSING) | |
| | CURRENT | 0.5A | | | |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | | REQUIREMENTS | |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | |
| MARKING | | CONFIRMED VISUALLY. | | X | X |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD IEC60512-2-2a | | OPEN VOLTAGE 20 mV AC MAX, TEST CURRENT 1mA. | | INITIALLY 100 mΩ MAXIMUM (NOTE 2). | |
| VOLTAGE PROOF IEC60512-2-4a | | 500 Vrms AC IS APPLIED FOR 1 MINUTE. | | ①NO FLASHOVER OR BREAKDOWN. ②CURRENT LEAKAGE 1mA MAXIMUM. | |
| INSULATION RESISTANCE IEC60512-2-3a | | MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC. | | INITIALLY 1000 MΩ MINIMUM. | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CARD INSERTION FORCE | | MEASURED BY APPLICABLE CORD AT 25mm/min. | | THE INITIAL STAGE:12 N MAX. AFTER MECHANICAL OPERATION:15N MAX. | |
| CARD EJECTION FORCE | | | | X | - |
| MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class1.1 | | 10,000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE LESS THAN 10 CYCLES PER 1 MINUTE. NOTE:AFTER EACH 10 CYCLES STOP THE INSRETION AND REST THE CONNECTOR FOR 5 TO 10 MINUTES. CARD SURFACE SHALL BE CLEANED BY AIR BLOW: AT EACH 100 CYCLES INTERVAL(10 TIMES) FROM STRAT TO 1,000 CYCLES. AT EACH 1,000 CYCLES INTERVAL (9 TIMES) FROM 1,001CYCLES TO 10,000 CYCLES. | | ① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. (CONTACT RESISTANCE REVERSION BY INSERTION AND EXTRACTION IS AVAILABLE) ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS. | |
| VIBRATION AND HIGH FREQUENCY IEC60512-4-6d | | FREQUENCY 10 TO 55 TO 10 Hz/min, SINGLE AMPLITUDE 0.75 mm FOR 4 h IN 3 DIRECTIONS, TOTAL 12 h. | | ① NO ELECTRICAL DISCONTINUITY OF 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS. | |
| SHOCK IEC60512-4-6c | | ACCELERATION 490m/s ² STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTIONS, TOTAL 18 TIMES. | | X | - |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 1 | DIS-F-005063 | KA. KANEKO | NH. SUGITA | 10. 09. 27 |
| REMARK | | | APPROVED | KI. AKIYAMA | 08. 09. 03 |
| NOTE1:INCLUDE THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | SI. TOMIOKA | 08. 09. 03 |
| NOTE 2:CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE.UNLESS OTHERWISE SPECIFIED, THE TEST SHOULD BE DONE UNDER TEMP. 15 TO 35°C, AIR PRESSURE 86 TO 106kPa, RELATIVE HUMIDITY 25 TO 85%. | | | DESIGNED | KJ. NISHIWAKI | 08. 09. 02 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWN | KJ. NISHIWAKI | 08. 09. 02 |
| | | | DRAWING NO. | | ELC4-158563-00 |
| | SPECIFICATION SHEET | | PART NO. | DM3BT-DSF-PEJS | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL609-0029-9-00 | 1/2 |

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SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|--|----|----|
| ENVIRONMENTAL CHARACTERISTICS | | | | |
| DAMP HEAT, CYCLIC IEC60512-6-11m | 10 CYCLES (1 CYCLE=24 HOURS) WITH CONNECTORS ENGAGED. | ① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MINIMUM. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS. | X | - |
| RAPID CHANGE OF TEMPERATURE IEC60512-6-11d | 5 CYCLES (1 CYCLE=1 HOUR) WITH CONNECTORS ENGAGED. TEMPERATURE:-55 TO +85°C | | X | - |
| DRY HEAT IEC60512-6-11i | EXPOSED AT 85 °C FOR 96 HOURS WITH CONNECTORS ENGAGED. | | X | - |
| COLD IEC60512-6-11j | EXPOSED AT -25 °C FOR 96 HOURS WITH CONNECTORS ENGAGED. | | X | - |
| DAMP HEAT, STEADY STATE IEC60512-6-11c | EXPOSED AT 40 °C, 90 TO 95 % RH, 96 HOURS WITH CONNECTORS ENGAGED. | | X | - |
| HYDROGEN SULFIDE JEIDA 38 | EXPOSED IN 3 PPM HYDROGEN SULFIDE, APPROX. 40°C, 80% RH, 96 HOURS, WITH CONNECTORS ENGAGED. | | X | - |

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|--|---------------------------|----------------------------|--|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. ELC4-158563-00 | |
| HRS | SPECIFICATION SHEET | PART NO. | DM3BT-DSF-PEJS |
| | HIROSE ELECTRIC CO., LTD. | CODE NO | CL609-0029-9-00 ▲ 2/2 |