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

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
| △     |                          |    |      |      | △     |                          |    |      |      |
| △     |                          |    |      |      | △     |                          |    |      |      |

| APPLICABLE STANDARD |                             |                 |                           |          |
|---------------------|-----------------------------|-----------------|---------------------------|----------|
| RATING              | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C | STORAGE TEMPERATURE RANGE | °C TO °C |
|                     | VOLTAGE                     | 250 V AC        | OPERATING HUMIDITY RANGE  | % TO %   |
|                     | CURRENT                     | 0.5 A           | APPLICABLE CABLE          |          |

### SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

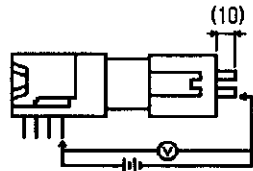
|                     |                                       |                       |   |   |
|---------------------|---------------------------------------|-----------------------|---|---|
| <b>CONSTRUCTION</b> |                                       |                       |   |   |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | ○ | ○ |
| MARKING             | CONFIRMED VISUALLY.                   |                       | ○ | ○ |

|                                 |   |                            |   |   |
|---------------------------------|---|----------------------------|---|---|
| <b>ELECTRIC CHARACTERISTICS</b> |   |                            |   |   |
| CONTACT RESISTANCE              | 100 mA (DC OR 1000 Hz). <span style="border: 1px solid black; padding: 0 2px;">1</span> | 35 mΩ MAX.                 | ○ | ○ |
| INSULATION RESISTANCE           | 500 V DC.   | 500 MΩ MIN.                | ○ | ○ |
| VOLTAGE PROOF                   | 500 V AC FOR 1 min.   | NO FLASHOVER OR BREAKDOWN. | ○ | ○ |

|                                   |  |   |   |   |
|-----------------------------------|--|---|---|---|
| <b>MECHANICAL CHARACTERISTICS</b> |  |   |   |   |
| INSERTION AND WITHDRAWAL FORCES   | MEASURED BY APPLICABLE CONNECTOR.  | 19.7 N MIN.<br>73.5 N MAX.  | ○ | - |
| MECHANICAL OPERATION              | 1000 TIMES INSERTIONS AND EXTRACTIONS. <span style="border: 1px solid black; padding: 0 2px;">1</span> | ① CONTACT RESISTANCE: 35 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | - |
| VIBRATION                         | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS.          | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                       | ○ | - |
| SHOCK                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.                              |   | ○ | - |

|                                      |  |  |   |   |
|--------------------------------------|--|--|---|---|
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |   |   |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES. | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○ | - |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40 °C, 90~95 %, 96 h.   | INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY.)<br>100 MΩ MIN. (AT DRY.) | ○ | - |
| CORROSION SALT MIST                  | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  | NO HEAVY CORROSION.  | ○ | - |
| RESISTANCE TO SOLDERING HEAT         | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S.                         | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.                 | ○ | - |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S.              | MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.           | ○ | - |

NOTE 1 MEASUREMENT POINT OF CONTACT RESISTANCE



|  |                  |                  |                 |                 |          |
|--|------------------|------------------|-----------------|-----------------|----------|
| REMARKS  | DRAWN            | DESIGNED         | CHECKED         | APPROVED        | RELEASED |
|  | <i>S. Hamaya</i> | <i>T. Hamaya</i> | <i>Y. Enami</i> | <i>H. Miura</i> |          |
| Unless otherwise specified, refer to JIS C 5402. | 03.10.10         | 03.10.10         | 03.10.15        | 03.10.15        |          |

|  |                               |                             |     |                             |
|--|-------------------------------|-----------------------------|-----|-----------------------------|
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test |                               |                             |     |                             |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                           |                               | SPECIFICATION SHEET         |     | PART NO.<br>DX10G1M-50S(50) |
| CODE NO.(OLD)<br>CL  | DRAWING NO.<br>ELC4-120447-02 | CODE NO.<br>CL230-5227-1-50 | 1/1 |                             |

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