





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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   |                             | IEC 61169-32  |              |  |   |          |
|---|-----------------------------|---|--------------|--|---|----------|
| RATING  | OPERATING TEMPERATURE RANGE | -55°C TO +125°C(95%RH MAX)  |              | STORAGE TEMPERATURE RANGE  | -55°C TO +85°C(95%RH MAX)   |          |
|   | POWER                       | _____ W   |              | CHARACTERISTIC IMPEDANCE   | 50Ω ( 0 TO 65 GHz)  |          |
|   | PECULIARITY                 | _____   |              | APPLICABLE CABLE   | _____   |          |
| <b>SPECIFICATIONS</b>   |                             |   |              |  |   |          |
| ITEM  |                             | TEST METHOD   |              | REQUIREMENTS   | QT  | AT       |
| <b>CONSTRUCTION</b>   |                             |   |              |  |   |          |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.   |              | ACCORDING TO DRAWING.  | X   | X        |
| MARKING   |                             | CONFIRMED VISUALLY.   |              |  | X   | X        |
| <b>ELECTRIC CHARACTERISTICS</b>   |                             |   |              |  |   |          |
| CONTACT RESISTANCE  |                             | 100 mA MAX (DC OR 1000 Hz).   |              | CENTER CONTACT 4 mΩ MAX.   | X   | X        |
|   |                             |   |              | OUTER CONTACT 2 mΩ MAX.  | X   | X        |
| INSULATION RESISTANCE   |                             | 100 V DC.   |              | 1000 MΩ MIN.   | X   | X        |
| VOLTAGE PROOF   |                             | 200 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.   |              | NO FLASHOVER OR BREAKDOWN.   | X   | X        |
| VOLTAGE STANDING WAVE RATIO   |                             | FREQUENCY 0 TO 65 GHz.  |              | ※VSWR 1.5 MAX. (0 TO 65GHz)  | X   | X        |
| INSERTION LOSS  |                             | FREQUENCY TO GHz  |              | dB MAX.  | -   | -        |
| <b>MECHANICAL CHARACTERISTICS</b>   |                             |   |              |  |   |          |
| CONTACT INSERTION AND EXTRACTION FORCES   |                             | EXTRACTION GAUGE: $\phi 0.495_{-0.005}^0$ [mm]<br>STEEL GAUGE.  |              | INSERTION FORCE N MAX.   | -   | -        |
|   |                             |   |              | EXTRACTION FORCE 0.05 ~ 2 N MIN.   | X   | X        |
| INSERTION AND WITHDRAWAL FORCES   |                             | MEASURED BY APPLICABLE CONNECTOR.   |              | INSERTION FORCE N MAX.   | -   | -        |
|   |                             |   |              | EXTRACTION FORCE N MIN.  | -   | -        |
| MECHANICAL OPERATION  |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.   |              | 1) CONTACT RESISTANCE:<br>CENTER CONTACT 6 mΩMAX.<br>OUTER CONTACT 4 mΩMAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                 | X   | -        |
| VIBRATION   |                             | FREQUENCY 10 TO 2000 Hz<br>SINGLE AMPLITUDE 0.75 mm, 196 m/s <sup>2</sup><br>AT 10 CYCLES FOR 3 DIRECTIONS.   |              | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | X   | -        |
| SHOCK   |                             | 980 m/s <sup>2</sup> DIRECTIONS OF PULSE 6 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.   |              |  | X   | -        |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |                             |   |              |  |   |          |
| DAMP HEAT,CYCLIC  |                             | EXPOSED AT -10 TO +65 °C, 90~96 %<br>TOTAL 10 CYCLES ( 240 h )<br> |              | 1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY)<br>2) INSULATION RESISTANCE: 1000 MΩ MIN. (AT DRY)<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X   | -        |
| RAPID CHANGE OF TEMPERATURE   |                             | TEMPERATURE -55 → -- → +125 → -- °C<br>TIME 30 → 3 → 30 → 3 min.<br>UNDER 5 CYCLES.   |              | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | X   | -        |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |              | VSWR CHARACTERISTIC SHALL BE MET.  | X   | -        |
|   | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED     | CHECKED  | DATE  |          |
|  | 1                           | DIS-D-00004506  | AH. MARUYAMA | NK. NINOMIYA   | 20191030  |          |
| REMARK  |                             |   |              | APPROVED   | NK. NINOMIYA  | 20191008 |
| ※VSWR is evaluated by de-embedded PCB trace.  |                             |   |              | CHECKED  | NK. NINOMIYA  | 20191008 |
| UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512.                                     |                             |   |              | DESIGNED   | AH. MARUYAMA  | 20191008 |
|   |                             |   |              | DRAWN  | AH. MARUYAMA  | 20191008 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                             |   | DRAWING NO.  |  | ELC-384075-11-00  |          |
|  | SPECIFICATION SHEET         |   | PART NO.     | HV-LR-SR2 (11)   |   |          |
|   | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.     | CL338-0018-0-11  |  | 1/1      |