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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   | -40°C TO +85°C           | STORAGE TEMPERATURE RANGE   | -40°C TO +85°C         |                  |
|  | POWER   | 100 W                    | CHARACTERISTIC IMPEDANCE  | 50 Ω ( 0.8 TO 2.2 GHz) |                  |
|  | USED CONNECTOR  | 95% MAX(NO CONDENSATION) | WATERPROOF  | IPX7                   |                  |
|  | —   | —                        | USED CONNECTOR  | N-J                    |                  |
| SPECIFICATIONS   |   |                          |   |                        |                  |
| ITEM   | TEST METHOD   |                          | REQUIREMENTS  | QT                     | AT               |
| CONSTRUCTION   |   |                          |   |                        |                  |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   |                          | ACCORDING TO DRAWING.   | X                      | X                |
| MARKING  | CONFIRMED VISUALLY.   |                          |   | X                      | X                |
| ELECTRIC CHARACTERISTICS                                       |   |                          |   |                        |                  |
| V.S.W.R.   | MUST BE UNDER THE STD.VALUE AT FREQUENCY 0.8 TO 2.2 GHz   |                          | 1.3 MAX   | X                      | X                |
| INSERTION LOSS   | MUST BE UNDER THE STD.VALUE AT FREQUENCY 0.8 TO 2.2 GHz   |                          | 0.2 dB MAX  | X                      | X                |
| MECHANICAL CHARACTERISTICS                                     |   |                          |   |                        |                  |
| MECHANICAL OPERATION   | 100 TIMES INSERTIONS AND EXTRACTIONS  |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| VIBRATION  | FREQUENCY 10 TO 2000 Hz, TOTAL AMPLITUDE 1.52 mm, 196 m/s <sup>2</sup> AT 4 HOURS, FOR 3 DIRECTIONS.                                |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| SHOCK  | ACCELERATION:490m/s <sup>2</sup><br>DURATION:11m/s <sup>2</sup> , HALF SINE WAVE<br>3 BOTH AXIAL DIRECTIONS.                        |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| ENVIRONMENTAL CHARACTERISTICS                                  |   |                          |   |                        |                  |
| MOISTURE RESISTANCE  | EXPOSE TO -10~+65 °C, 80 ~ 100 %, 10 CYCLES (240 HOURS.) THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY. |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE-58~-55→20~35→85~88→20~35°C<br>TIME 30 → 5MAX → 30 → 5MAX min<br>TEST 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO.         |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| SURGE IMMUNITY TEST  | IEC61000-4-5 ED2 LEVEL4 APPLY COMBINATION WAVE(1.2/50 μ s,8/20 μ s) ±4kV ,5 EACH TIMES  |                          | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                      | —                |
| IMPULSE WITHSTANDING   | APPLY IMPULSE WHICH HAS THE DURATION IN 8/20 MICRO SECONDS AND THE WAVEFORM OF PLUS/MINUS 50kA AT EACH FIVE TIMES.                  |                          | NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.  | X                      | —                |
|  | APPLY IMPULSE WHICH HAS THE DURATION IN 10/350 MICRO SECONDS AND THE WAVEFORM OF PLUS/MINUS 35kA AT EACH ONE TIME.                  |                          | NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS.  | X                      | —                |
| SALT SPRAY (CORROSION)   | EXPOSE TO 5 % SALT WATER SPRAY FOR 48 HOURS.  |                          | NO CORROSION WHICH AFFECTS THE OPERATION OF COMPONENT.                                  | X                      | —                |
| WATER PROOF  | SUBMERGE IT AT THE DEPTH OF 1 METER FOR 30 MINUTES IN A PROPER CONDITION.   |                          | NO WATER INTRUSION INTO CONNECTOR INSIDE.   | X                      | —                |
| AIR PRESSURE WITHSTANDING                                      | APPLY AIR PRESSURE OF 17.6 kPa FOR 30 SECONDS IN A PROPER CONDITION.  |                          | NO SEQUENTIAL LEAKAGE OF BUBBLE FROM CONNECTOR INSIDE.                                  | X                      | X                |
| REVISIONS  |   |                          |   |                        |                  |
| △  | COUNT   | DESCRIPTION OF REVISIONS | DESIGNED  | CHECKED                | DATE             |
|  | 0   |                          |   |                        |                  |
| REMARK   |   |                          | APPROVED  | KY. SHIMIZU            | 16. 03. 11       |
| (1)RoHS COMPLIANT  |   |                          | CHECKED   | TO. KATAYAMA           | 16. 03. 10       |
| (2)NOT INCLUDE THE ADAPTER LOSS IN INSERTION LOSS.             |   |                          | DESIGNED  | YI. FUNADA             | 16. 03. 09       |
| Unless otherwise specified, refer to IEC 60512.                |   |                          | DRAWN   | YI. FUNADA             | 16. 03. 09       |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |   |                          | DRAWING NO.   |                        | ELC-178986-00-00 |
| <b>HRS</b>   | SPECIFICATION SHEET   |                          | PART NO.  | CP-N-JJS-1             |                  |
|  | HIROSE ELECTRIC CO., LTD.   |                          | CODE NO.  | CL355-0134-0-00        | △ 1/1            |