

| APPLICABLE STANDARD   |   |                  |   |                                |          |
|---|---|------------------|---|--------------------------------|----------|
| RATING  | FREQUENCY RANGE   | DC ~ 50 GHz      | STORAGE TEMPERATURE RANGE   | -55°C ~ + 125°C (No Load) (※1) |          |
|   | POWER   | 1 W CW (AT 65°C) | CHARACTERISTIC IMPEDANCE  | 50 Ω                           |          |
|   | OPERATING TEMPERATURE RANGE   | -10 °C TO +65 °C | APPLICABLE CABLE  | ---                            |          |
|   | OPERATING RELATIVE HUMIDITY   | ~ 90 %           | USED CONNECTOR  | H2.4-P , H2.4-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 DC TO 50 GHz   |                  | 1.3 MAX (DC ~ 12 GHz)   | X                              | X        |
|   |   |                  | 1.4 MAX (12 ~ 50GHz)  |                                |          |
| INSERTION LOSS  | MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 50 GHz   |                  | 2.7 dB ~ 3.7 dB (DC ~ 18GHz)  |                                |          |
|   |   |                  | 2.7 dB ~ 3.8 dB (18 ~ 26.5GHz)  | X                              | X        |
|   |   |                  | 2.7 dB ~ 4.5 dB (26.5 ~ 50GHz)  |                                |          |
| INSULATION RESISTANCE   | MUST BE OVER STANDARD VALUE AT DC V.  |                  | MINIMUM OF MΩ   | -                              | -        |
| VOLTAGE PROOF   | V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.   |                  | NO FLASHOVER OR BREAKDOWN.  | -                              | -        |
| RESISTANCE VALUE  | MEASURE THE RESISTANCE VALUE AT DC V.   |                  | MAX   | -                              | -        |
| MECHANICAL CHARACTERISTICS  |   |                  |   |                                |          |
| MECHANICAL OPERATION  | 500 TIMES INSERTIONS AND EXTRACTIONS.   |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO DAMAGE, CRACK, AND LOOSENESS, OF        | X                              | -        |
| VIBRATION   | FREQUENCY 10 TO 55 Hz,<br>SINGLE AMPLITUDE 0.75 mm OR 1 oct/min<br>AT 10 CYCLES FOR 3 DIRECTIONS. |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                              | -        |
| SHOCK   | 490 m/s <sup>2</sup> AT 18 TIMES FOR 3 DIRECTIONS.  |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X                              | -        |
| ENVIRONMENTAL CHARACTERISTICS   |   |                  |   |                                |          |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55 → 15~25 → 125 → 15~25 °C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 100 CYCLES.     |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO HEAVY CORROSION.                        | X                              | -        |
| DAMP HEAT (STEADY STATE)  | EXPOSED AT 40 °C, 90% TO 95%<br>TOTAL 96 h.   |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO HEAVY CORROSION.                        | X                              | -        |
| DRY HEAT  | EXPOSED AT 125 °C TOTAL 48 h.   |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO HEAVY CORROSION.                        | X                              | -        |
| COLD  | EXPOSED AT -55 °C TOTAL 48 h.   |                  | ① ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>② NO HEAVY CORROSION.                        | X                              | -        |
| CORROSION SALT MIST   | EXPOSED IN 5±1 % SALT WATER , AT 35±2°C<br>SPRAY FOR 48 HOURS.                                    |                  | 1.3 MAX (DC ~ 12 GHz)   | X                              | -        |
|   |   |                  | 1.4 MAX (12 ~ 50GHz)  |                                |          |
| COUNT   | DESCRIPTION OF REVISIONS  | DESIGNED         | CHECKED   | DATE                           |          |
| △   |   |                  |   |                                |          |
| REMARKS RoHS COMPLIANT<br>High frequency performance is only measured and the data is not attached.<br>(※1) The storage temperature range means the one of the product itself without packaging.<br>Unless otherwise specified, refer to IEC 60512. |   |                  | APPROVED  | KH. IKEDA                      | 18.02.08 |
|   |   |                  | CHECKED   | TS. NOBE                       | 18.02.08 |
|   |   |                  | DESIGNED  | HA. NISHIMURA                  | 18.02.08 |
|   |   |                  | DRAWN   | HA. NISHIMURA                  | 18.02.08 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   | DRAWING NO.      | ELC-381493-00-00  |                                |          |
| <b>HRS</b>  | SPECIFICATION SHEET   |                  | PART NO.  | H2.4-AT (3) -PJ                |          |
|   | HIROSE ELECTRIC CO., LTD.   |                  | CODE NO.  | CL354-0291-0-00                | △ 1/1    |