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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 | 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 | | 1.35 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 | | 19 dB ~21 dB (DC ~18GHz) | X | X | |
| | | | 19 dB ~21.2 dB (18 ~26.5GHz) | | | |
| | | | 19 dB ~21.4 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. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF | X | - | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm OR 1 oct/min AT 10 CYCLES FOR 3 DIRECTIONS. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - | |
| SHOCK | 490 m/s ² AT 18 TIMES FOR 3 DIRECTIONS. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 15~25 → 125 → 15~25 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 100 CYCLES. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO HEAVY CORROSION. | X | - | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 °C, 90% TO 95% TOTAL 96 h. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO HEAVY CORROSION. | X | - | |
| DRY HEAT | EXPOSED AT 125 °C TOTAL 48 h. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO HEAVY CORROSION. | X | - | |
| COLD | EXPOSED AT -55 °C TOTAL 48 h. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO HEAVY CORROSION. | X | - | |
| CORROSION SALT MIST | EXPOSED IN 5±1 % SALT WATER , AT 35±2°C SPRAY FOR 48 HOURS. | | 1.35 MAX (DC ~ 12 GHz) | X | - | |
| | | | 1.4 MAX (12 ~ 50GHz) | | | |
| | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | |
| REMARKS | RoHS COMPLIANT | | | APPROVED | KH. IKEDA | 18.02.08 |
| | High frequency performance is only measured and the data is not attached. | | | CHECKED | TS. NOBE | 18.02.08 |
| | (※1) The storage temperature range means the one of the product itself without packaging. | | | DESIGNED | HA. NISHIMURA | 18.02.08 |
| | Unless otherwise specified, refer to IEC 60512. | | | DRAWN | HA. NISHIMURA | 18.02.08 |
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC-381496-00-00 | | |
|  | SPECIFICATION SHEET | | PART NO. | H2. 4-AT (20) -PJ | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL354-0294-0-00 |  1/1 | |