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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 | \triangle DC ~ 67 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 | HV-P , HV-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 67 GHz \triangle | | 1.40 MAX (DC~40GHz) | X | X |
| | | | \triangle 1.60 MAX (40 ~67GHz) | | |
| INSERTION LOSS | MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 67 GHz \triangle | | 9.3dB ~10.7dB (DC ~18GHz) | X | X |
| | | | 9.3dB ~10.8dB (18 ~26.5GHz) | | |
| | | | \triangle 9.3dB ~11dB (26.5 ~40GHz) | | |
| | | | 9.3dB ~12.1dB (40 ~67GHz) | | |
| INSULATION RESISTANCE | MUST BE OVER STANDARD VALUE AT DC V. | | MINIMUM OF M Ω | - | - |
| 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 PARTS. | 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. | | NO HEAVY CORROSION. | X | - |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | \triangle 5 | DIS-D-00002210 | HA. NISHIMURA | TS. NOBE | 17. 06. 23 |
| REMARKS | | | APPROVED | KY. SHIMIZU | 14. 12. 18 |
| RoHS COMPLIANT | | | CHECKED | TO. KATAYAMA | 14. 12. 18 |
| High frequency performance is only measured and the data is not attached. | | | DESIGNED | YI. FUNADA | 14. 12. 17 |
| (※1) The storage temperature range means the one of the product itself without packaging. | | | DRAWN | YI. FUNADA | 14. 12. 17 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-180472-00 |
| | SPECIFICATION SHEET | | PART NO. | HV-AT (10) -PJ | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL354-0247-0-00 | \triangle 1/1 |