


Jun.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 | 2(AT 25°C) W CW 1(AT 85°C) W CW | CHARACTERISTIC IMPEDANCE | 50 Ω (DC TO 18 GHz) | |
| | OPERATING RELATIVE HUMIDITY | 95% MAX | USED CONNECTOR | SMA.P-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 4.0 GHz | | MAXIMUM OF 1.15 | X | X |
| | MUST BE UNDER THE STD.VALUE AT FREQUENCY 4.0 TO 12.4 GHz | | MAXIMUM OF 1.20 | | |
| | MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz | | MAXIMUM OF 1.30 | | |
| ATTENUATION | MUST BE UNDER THE STD.VALUE AT FREQUENCY DC TO 12.4 GHz | | 6.3 TO 7.7 dB. | X | X |
| | MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz | | 5.8 TO 8.2 dB | | |
| ISOLATION | MUST BE UNDER THE STD.VALUE AT FREQUENCY TO GHz | | MINIIMUM OF dB. | - | - |
| 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 DC1V. | | Ω ± % | - | - |
| MECHANICAL CHARACTERISTICS | | | | | |
| CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL) | APPLYING A PULL FORCE THE CABLE AXIALLY AT N MAX. | | ①NO WITHDRAWAL AND BREAKAGE OF CABLE. ②NO BREAKAGE OF CLAMP. | - | - |
| VIBRATION | FREQUENCY 10 TO 2000 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 4 HOURS, FOR 3 DIRECTIONS. | | NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| SHOCK | 490 m/s ² AT 10 TIMES FOR 3 DIRECTIONS. | | NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSE TO °C, ~ %, h. THEN LEAVE IT FOR ONE HOUR OR TWO IN THE AMBIENT TEMPERATURE AND HUMIDITY. | | ①ELECTRICAL CHARACTERISTIC SHALL BE MET. ②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. | - | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-58~-55→20~35→85~88→20~35°C TIME 30 →10→15→ 30 →10→15min TEST 5 CYCLES AND LEAVE IT FOR ONE HOUR OR TWO. | | 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 | - |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 0 | | | | |
| REMARK | | | APPROVED | MT. SHIBUTANI | 11.07.15 |
| | | | CHECKED | KY. SHIMIZU | 11.07.15 |
| | | | DESIGNED | TO. KATAYAMA | 11.07.14 |
| | | | DRAWN | TO. KATAYAMA | 11.07.14 |
| Unless otherwise specified, refer to JIS C 5402. | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-181119-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | | AT-107V |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | CL354-0269-2-00 |
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