




| 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                       | CHARACTERISTIC IMPEDANCE  | 50 Ω ( DC TO 18.0 GHz) |   |     |
|   | OPERATING RELATIVE HUMIDITY   | 95% MAX                               | USED CONNECTOR  | SMA.P-J                |   |     |
| <b>SPECIFICATIONS</b>   |   |                                       |   |                        |   |     |
| ITEM  |   | TEST METHOD                           |   | REQUIREMENTS           | QT  | AT  |
| <b>CONSTRUCTION</b>   |   |                                       |   |                        |   |     |
| GENERAL EXAMINATION   |   | VISUALLY AND BY MEASURING INSTRUMENT. |   | ACCORDING TO DRAWING.  | X   | X   |
| MARKING   |   | CONFIRMED VISUALLY.                   |   |                        | X   | X   |
| <b>ELECTRIC CHARACTERISTICS</b>   |   |                                       |   |                        |   |     |
| 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   |                                       | 18.8 TO 21.2 dB.  |                        | X   | X   |
|   | MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz   |                                       | 18.7 TO 21.3 dB   |                        |   |     |
| <b>MECHANICAL CHARACTERISTICS</b>   |   |                                       |   |                        |   |     |
| VIBRATION   | FREQUENCY 10 TO 2000 Hz, TOTAL AMPLITUDE 1.52 mm, 98 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 : 490 m/s <sup>2</sup><br>DURATION : 11 ms , HALF SINE WAVE<br>3 BOTH AXIAL DIRECTIONS, 3 TIMES EACH     |                                       | ①ELECTRICAL CHARACTERISTIC SHALL BE MET.<br>②NO DAMAGE, CRACK, AND LOOSENESS, OF PARTS. |                        | X   | -   |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |   |                                       |   |                        |   |     |
| THERMAL SHOCK   | TEMPERATURE-58~-55→20~35→85~88→20~35°C<br>TIME 30 → 5 → 30 → 5 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   | -   |
| SALT ATMOSPHERE (CORROSION)   | SALT SOLUTION CONCENTRATION 5%<br>SALT WATER SPRAY FOR 48 HOURS.  |                                       | NO CORROSION WHICH AFFECTS THE OPERATION OF COMPONENT.                                  |                        | X   | -   |
|   |   |                                       |   |                        |   |     |
|   | COUNT   | DESCRIPTION OF REVISIONS              | DESIGNED  | CHECKED                | DATE  |     |
|  |   |                                       |   |                        |   |     |
| REMARKS   |   |                                       | APPROVED  | MT. SHIBUTANI          | 12.02.01  |     |
| ROHS COMPLIANT  |   |                                       | CHECKED   | KY. SHIMIZU            | 12.02.01  |     |
| Unless otherwise specified, refer to MIL-STD-202..                                  |   |                                       | DESIGNED  | TK. SAWAGUCHI          | 12.01.31  |     |
|   |   |                                       | DRAWN   | TK. SAWAGUCHI          | 12.01.31  |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |   |                                       | DRAWING NO.   | ELC4-181124-01         |   |     |
|  | SPECIFICATION SHEET   |                                       | PART NO.  | AT-120V                |   |     |
|   | HIROSE ELECTRIC CO., LTD.   |                                       | CODE NO.  | CL354-0274-2-00        |  | 1/1 |