

| 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                |

### 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  |   |   |
|             | MUST BE UNDER THE STD.VALUE AT FREQUENCY 4.0 TO 12.4 GHz  | MAXIMUM OF 1.20  | X | X |
|             | 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   | 13.8 TO 16.2 dB. | X | X |
|             | MUST BE UNDER THE STD.VALUE AT FREQUENCY 12.4 TO 18.0 GHz | 13.7 TO 16.3 dB  |   |   |

#### MECHANICAL CHARACTERISTICS

|           |   |   |   |   |
|-----------|---|---|---|---|
| VIBRATION | FREQUENCY 10 TO 2000 Hz,<br>TOTAL AMPLITUDE 1.52 mm, 98 m/s <sup>2</sup><br>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 | - |

#### ENVIRONMENTAL CHARACTERISTICS

|                             |   |   |   |   |
|-----------------------------|---|---|---|---|
| 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<br>ROHS COMPLIANT | APPROVED | MT. SHIBUTANI | 12.02.01 |
|                           | CHECKED  | KY. SHIMIZU   | 12.02.01 |
|                           | DESIGNED | TK. SAWAGUCHI | 12.01.31 |
|                           | DRAWN    | TK. SAWAGUCHI | 12.01.31 |

Unless otherwise specified, refer to MIL-STD-202..

|  |             |                |
|--|-------------|----------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-181140-01 |
|--|-------------|----------------|

|            |                           |          |                 |
|------------|---------------------------|----------|-----------------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | AT-115V         |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL354-0277-0-00 |

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