

REMOTE SOLUTION CO.,LTD.			
INSTITUTION: 2021.04.30	SPECIFICATION (Recharging Station)	MODEL NO: RD49A00	5 40
REFORM :			
DECISION :			

2-3 ELECTRICAL CHARACTERISTICS

2-3-1 OPERATING & LEAKAGE CURRENT

- * IR CURRENT (AVERAGE)
 - 20mA ±3 [VBAT : 3.0V]
- * RF CURRENT (AVERAGE)
 - 6 mA ±2 [VBAT 3.0V]
- * VOICE TRANS CURRENT (AVERAGE)
 - 7 mA ±2 [VBAT 3.0V]
- * LEAKAGE CURRENT (AVERAGE)
 - IR MODE : 2.1uA ±1 [VBAT 3.0V]
 - RF MODE : 100uA ±20 [VBAT .30V]
 - (MEASURE THE CURRENT, AFTER LEAVING FOR 1 MINUTE)

2-3-2 OPERATING VOLTAGE : MORE THAN DC 2.2V ~ 3.2V, BATTERY

2-3-3 FUNCTION OF LOW VOLTAGE DETECT : 2.4V± 0.1V

2-3-4 OPERATING DISTANCE AND POINTING ANGLE

Vb : D.C 3.0V (ALKALINE BATTERY ‘AAA’ * 2 EA)

- 2-3-4-1 IR RANGE
- * STRAIGHT (0 °) : MAX. 15m
 - * Angle 20° Left / Right : Mn 10 (m)
 - * Angle 30° Up : Min 10 (m)
 - * Angle 10° Down : Min 10 (m)

- 2-3-4-2 RF RANGE
- * STRAIGHT (0 °) : MIN. 30m
 - * sight at all directions with anelevation angle +/- 20°

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3. ENVIRONMENT CHARACTERISTICS

3-1 Fundamental performance

- A. Operating Current
- B. Stand-by Current
- C. Operating Voltage
- D. Performance
- E. Exterior

3-2 Dry Heat Test

- A. Temperature : 60 ± 3℃
- B. Humidity : 5 ~ 10%
- B. Time : 96 Hrs.

3-3 Damp Heat Test

- A. Temperature : 65 ± 3℃
- B. Humidity : 90 ~ 95%
- B. Time : 96 Hrs.

3-4 Temperature Cycling

- A. Temperature : 65℃ ~ -10℃ / 3Cycles
- B. Time : 3Hrs

3-5 Cold Test

- A. Temperature : -10 ± 3℃
- B. Time : 96 Hrs.

3-6 Stressing Chip-On-Board

One cycle of -40℃ uncontrolled relative humidity (rh) for 8 hours; 70C° at 10% rh for 8 hours; 70 C° at 90% rh for 8 hours and room ambient until stable. Temperature ramp rate is 2 C° per minute.

3-7 Vibration Test

- A. Vibration width : 1.5mm
- B. Sweep Frequency : 10~55 Hz
- C. Test Period : 6 Hrs / each direction (X Y Z)

3-8 ESD Test

- A. ±8kV, 1Hz, 10 Times Contact discharge
- B. ±16kV, 1Hz, 10 Times Air contact discharge

3-9 Life Time

- A. Once Per second for 500,000 cycles

3-10 Drop (with batteries installed)

- A. Height: 80 cm (31.5 in.)
- B. Floor: hard vinyl tiles over concrete foundation
- C. Impact: Six impact locations on the remote control

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- 3-11 Resistance to Oil and Liquids

A. Apply the following liquids individually and the confirm appearance after keeping them in a normal ambient

B. Condition for 96 hours : cooking oil, butter, margarine, hair spray, soy sauce, artificial sweat lanolin
- 4-12 Liquid Test

A. 50 cc of coffee including 2cc sugar in solution, poured over the top of the remote. After a drying time of 48hours, the Remote shall operate normally.
- 5-13 Distance Test

A. IR Range

- Straight line from a Receiver module : Min 15 (m)

- Angle 25° Left / Right : Min 10 (m)

- Angle 30° Up : Min 10 (m)

- Angle 15° Down : Min 10 (m)

B. RF Range

- The range shall be greater than 30 meters line of sight at all directions with anelevation angle +/- 20°
- 6-14 Alcohol Test

A. Using a cloth soaked in isoporpyl alcohol, rub key legend 100 times with 500gF

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

"CAUTION : Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.