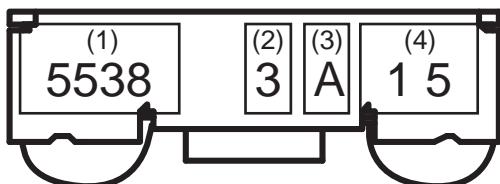


● Product Designation

R P M ** ** - ** **

- Packaging Specification
E2A (1pin, sproket hole side, Side view type)
E4A (1pin, sproket hole side, Top view type)
- Shield case
- Individual form justification
Remote controller Carrier frequency
37 36.7kHz
38 37.9kHz
40 40.0kHz
- The main classifications
5* Surface mount type

● Marking



(1) Model name

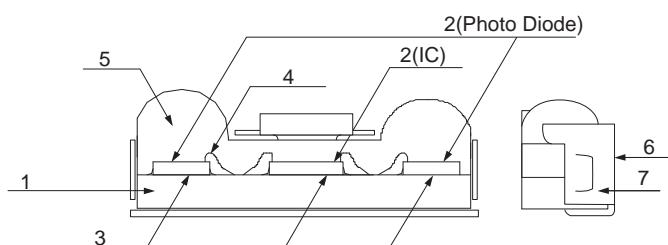
(2) Lot number : The ends of a manufacture year (A.D.)

(3) Lot number : The manufacture month

| Month | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|-------|------|------|------|------|-----|------|------|------|------|------|------|------|
| Mark | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C |

(4) Manufacture lot number

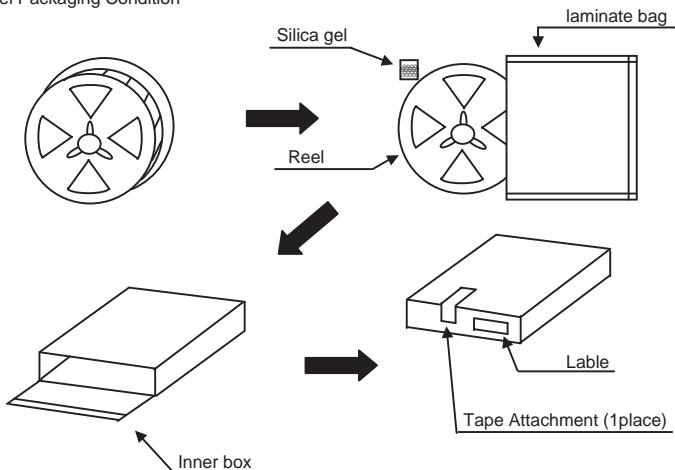
● Internal structure figure



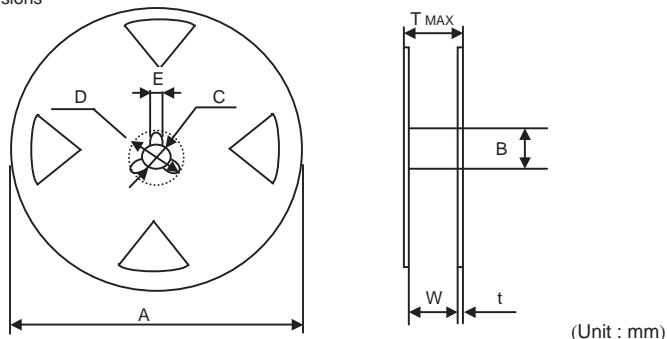
| No. | Part Name | Materials (method) |
|-----|-------------|---|
| 1. | Frame | Glass epoxy (Outer lead : Au plated) |
| 2. | Die | IC / Silicone Photo Diode / Silicone |
| 3. | Die Attach | Insulating Paste |
| 4. | Wire | Au Wire (Thermosonic wire-bonding) |
| 5. | Molding | Non-fireproof Epoxy Resin (Transfer Mold) |
| 6. | Marking | laser Marking |
| 7. | Shield case | Fe (Sn plated) |

● Packing specification

1. Reel Packaging Condition



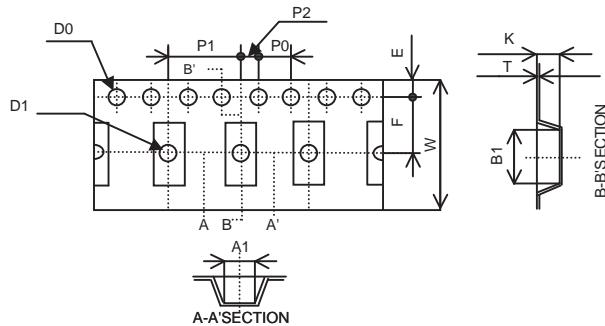
2. Reel Dimensions



| Real size / Tape size | A | B | C | D | E | W | t | T MAX |
|-----------------------|-------|--------|----------|----------|---------|--------|-------|-------|
| 16 | 330±2 | φ100±1 | 13.0±0.2 | 21.0±0.8 | 2.0±0.5 | 17.4±1 | 2.0±1 | 22.4 |

| Packaging Style | Part No. | Side / Top View | Taping Type No. | Quantity per unit (PCS) | Basic ordering unit (PCS) |
|-----------------|--------------|-----------------|-----------------|-------------------------|---------------------------|
| Embossed taping | RPM5537-H14 | SIDE VIEW | E2A | | |
| | RPM5538-H14 | | | | |
| | RPM5540-H14 | | | | |
| | RPM5337-H14 | | | | |
| | RPM5338-H14 | | | | |
| | RPM5340-H14 | | | | |
| | RPM5537-H12 | | | | |
| | RPM5538-H12 | | | | |
| | RPM5540-H12 | TOP VIEW | E4A | 2500 | 2500 |
| | RPM5337-H12 | | | | |
| | RPM5338-H12 | | | | |
| | RPM5340-H12 | | | | |
| | RPMS2371-H19 | | | | |
| | RPMS2381-H19 | | | | |
| | RPMS2401-H19 | | | | |
| | RPMS1371-H19 | | | | |
| | RPMS1381-H19 | | | | |
| | RPMS1401-H19 | | | | |

3. Tape Dimension



| Tape code No. | Package | A1 | B1 | D0 | D1 | E | F | P0 | P1 | P2 | T | K | W |
|---------------|------------|------|------|------|------|------|------|------|------|------|------|------|-------|
| E2A | RSLP7A-H14 | 3.30 | 8.40 | φ1.5 | φ1.6 | 1.75 | 7.50 | 4.00 | 8.00 | 2.00 | 0.30 | 2.50 | 16.00 |
| E4A | RSLP7A-H12 | 3.40 | 8.20 | φ1.5 | φ1.6 | 1.75 | 7.50 | 4.00 | 8.00 | 2.00 | 0.30 | 2.83 | 16.00 |

(Unit : mm)

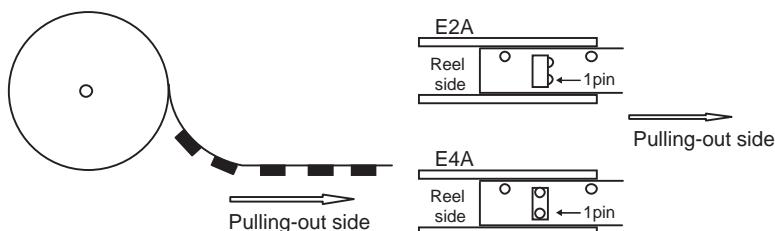
<Tape Material>

Holes = PS Cover Tape = PE

4. Products Direction in the taping pocket

E2A ··· Every Module's lens face to pulling-out side the taping.

E4A ··· Every Module's lens face to top of the taping pocket.

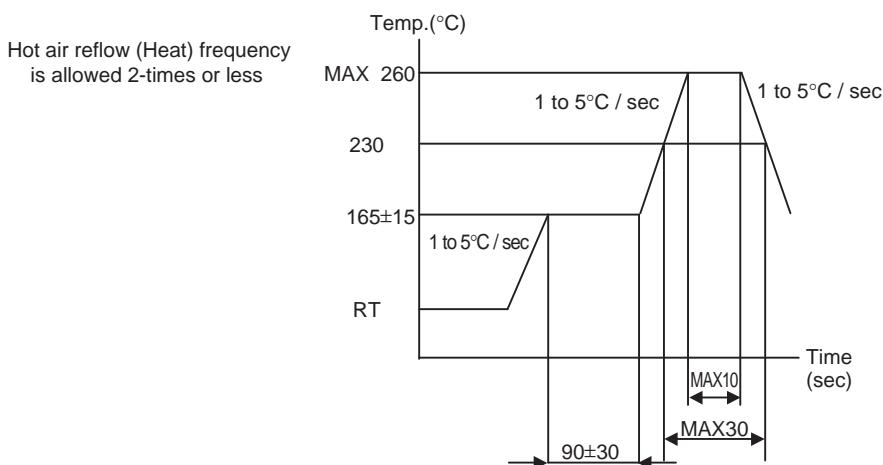


● Recommended soldering conditions

[Recommended mounting conditions]

Hot air reflow condition

Package surface temperature (°C)



Condition of partial heat method (by soldering iron) is used ;

350°C MAX 3sec MAX / pin

● Recommended Conditions for Flux and Cleaning

(1) Flux

Rosin flux with less chlorine. (Chlorine not more than 0.2wt%)

(2) Conditions for Ultrasonic cleaning

| | |
|------------------------|---|
| Frequency | : 28KHz |
| Ultrasonic wave output | : MAX 15W / liter |
| Solvent | : Alcoholic solvent is recommended. (From the viewpoint of respecting a decision in protecting the ozone layer, our company dose not recommend cleaning with freon or chloride solvents.) |
| Time | : Within 30sec (Within 3min when ultrasonic wave is not used) |
| Solution temperature | : MAX 40°C |

<Cautions>

- A device must not resonate.
- The device print board must not contact directly to the vibration source.
- Do not rub the marked area of the package with a brush or fingers during cleaning and when the cleaning solvent is adhered to the device.
- From the viewpoint of respecting a decision in protecting the ozone layer, out company does not recommend cleaning with freon or chloride solvents(1.1.1-Trichlorotane), However, both quality and reliability of the product will not suffer as long as the recommended conditions for cleaning are maintained and controlled.

● Baking process

| Condition | Temp. | Baking time | Total bake time |
|---------------|------------|-------------|-----------------|
| In reel(tape) | 60 to 65°C | ≥ 48 hours | ≤ 100 hours |
| In bulk | 125°C | ≥ 24 hours | ≤ 50 hours |

The above will be applied :

- 1) When the packing is left opened for more than 72 hours.
- 2) When product is kept unused (in unopened packing) over 12 months.

(1) <Baking condition's for Taping storage>

<Baking condition of the reel after 72hours opening the moisutre proof packing>

- Minimum baking time is 48hours at 60 to 65°C.
- Total baking time must not exceed 100hours in total.
- Only bake 2 times maximum.

(2) <Baking Condition's for Bulk storage>

<Baking condition of the reel after 72hours opening the moisutre proof packing>

- Minimum baking time is 24hours at 125°C.
- Total baking time must not exceed 50hours in total.
- Only bake 2 times maximum.

Solder-dip method mounting is not recommended because it gives extra stress on the device, which will lead to bad influence on its reliability.

Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
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- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
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