



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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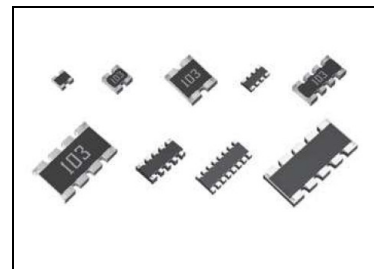
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



### ● Features

- 1) Can be mounted even more densely than chip resistors.
- 2) Mounting cost can be reduced by less frequency of mounting times.
- 3) Convex electrodes secures visual inspection of fillets after soldering.
- 4) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.



Part No.	Size		No. of terminals	No. of elements	Type code	Packaging specifications	Quantity / Reel	Automotive grade available
	(mm)	(inch)						
<b>MNR02</b>	1005 × 2	0402 × 2	4	2	M0AP	Paper tape (2mm pitch)	10,000	Yes
<b>MNR04</b>	1005 × 4	0402 × 4	8	4	M0AP	Paper tape (2mm pitch)	10,000	Yes
<b>MNR12</b>	1608 × 2	0603 × 2	4	2	E0AP	Paper tape (4mm pitch)	5,000	Yes
<b>MNR14</b>	1608 × 4	0603 × 4	8	4	E0AP	Paper tape (4mm pitch)	5,000	Yes
<b>MNR15</b>	1608 × 5	0603 × 5	10	8	E0RP	Paper tape (4mm pitch)	5,000	Yes
<b>MNR18</b>	1605 × 8	0602 × 8	16	8	E0AP	Paper tape (4mm pitch)	5,000	Yes
<b>MNR32</b>	3216 × 2	1206 × 2	4	2	J0AB	Embossed tape (4mm pitch)	4,000	Yes
<b>MNR34</b>	3216 × 4	1206 × 4	8	4	J5AB	Embossed tape (4mm pitch)	4,000	Yes
<b>MNR35</b>	3216 × 5	1206 × 5	10	8	J5R	Embossed tape (4mm pitch)	4,000	Yes

### ● Part number description

Part No.	Size (mm [inch])	Type code	Resistance tolerance	Nominal resistance						
MNR	02	M0AP	J	105						
<b>MNR</b> (Chip resistors networks)	02 (1005 × 2 [0402 × 2]) 04 (1005 × 4 [0402 × 4]) 12 (1608 × 2 [0603 × 2]) 14 (1608 × 4 [0603 × 4]) 15 (1608 × 5 [0603 × 5]) 18 (1605 × 8 [0602 × 8]) 32 (3216 × 2 [1206 × 2]) 34 (3216 × 4 [1206 × 4]) 35 (3216 × 5 [1206 × 5])		F (±1%) J (±5%) (Including jumper type)	Resistance code, 3 or 4 digits. 000 denotes jumper type. <table border="1"> <thead> <tr> <th>Resistance tolerance</th> <th>Resistance code</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>: 4 digits</td> </tr> <tr> <td>J</td> <td>: 3 digits</td> </tr> </tbody> </table>	Resistance tolerance	Resistance code	F	: 4 digits	J	: 3 digits
Resistance tolerance	Resistance code									
F	: 4 digits									
J	: 3 digits									
EX.) 1Ω = 1R0 (±5%) 9.1Ω = 9R1 (±5%) 10Ω = 10R0 (±1%) 100 (±5%) 1MΩ = 1004 (±1%) 105 (±5%)										

● Products list

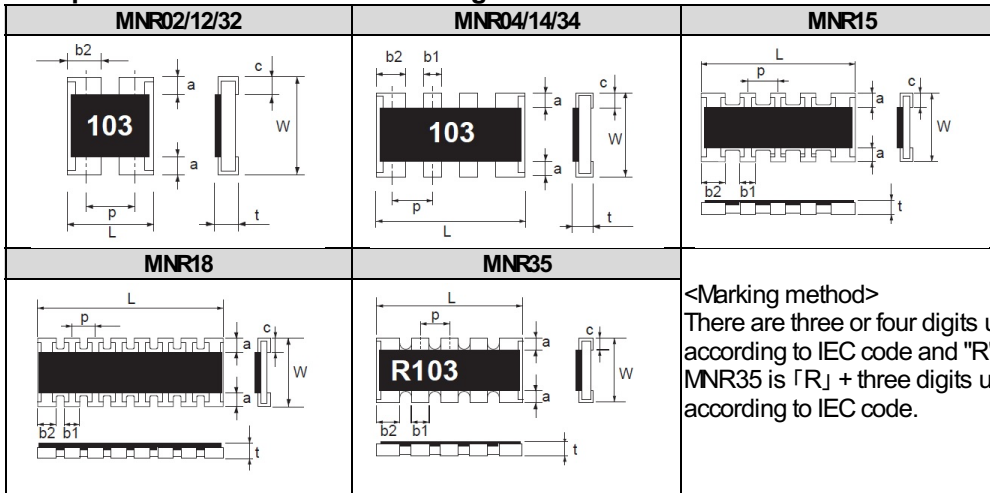
Part No.	Type code	Rated power (70°C) (W)	Limiting element voltage (V)	Temperature coefficient (ppm / °C)	Resistance tolerance (%)	Resistance range (Ω)	Operating temperature range (°C)
MNR02	M0AP	0.063/ Element	25	±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +155
MNR04	M0AP	0.063/ Element	25	+500 / -250	J (±5%)	1 ≤ R < 10 (E24 series)	-55 ~ +155
				±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	
				Jumper type : Rmax = 50mΩ Max, Imax = 1A(Element)			
MNR12	E0AP	0.063/ Element	50	±100	F (±1%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +155
				±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	
				Jumper type : Rmax = 50mΩ Max, Imax = 1A(Element)			
MNR14	E0AP	0.063/ Element	50	±100	F (±1%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +155
				±500	J (±5%)	2.2 ≤ R < 10 (E6 series)	
				±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	
				Jumper type : Rmax = 50mΩ Max, Imax = 1A(Element)			
MNR15	E0RP	0.031/ Element	12.5	±200	J (±5%)	56 ≤ R ≤ 100k (E96 series)	-55 ~ +125
MNR18	E0AP	0.063/ Element	25	±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +125
MNR32	J0AB	0.125/ Element	200	±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +125
MNR34	J5AB	0.125/ Element	200	±200	J (±5%)	10 ≤ R ≤ 1M (E24 series)	-55 ~ +125
MNR35	J5R	0.063/ Element	50	±200	J (±5%)	56 ≤ R ≤ 100K (E12 series)	-55 ~ +125

\* Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

● Circuit construction

MNR 02/12/32	MNR 04/14/34	MNR 15/35	MNR18
R1=R2	R1=R2=R3=R4	R1=R2=R3=R4=R5=R6=R7=R8	R1=R2=R3=R4=R5=R6=R7=R8

● Chip resistor dimensions and markings



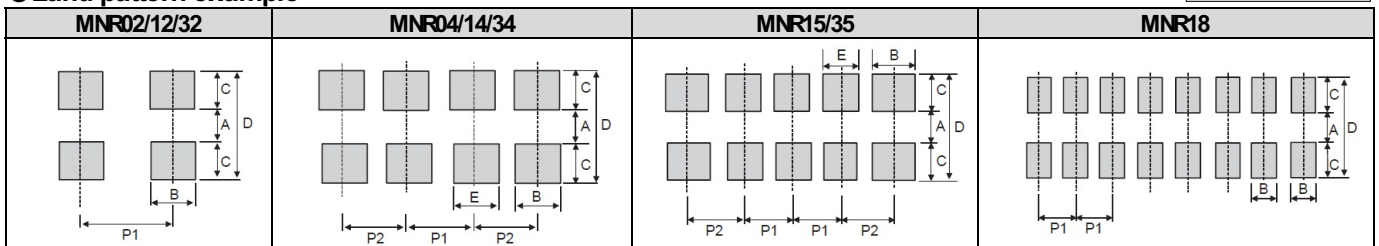
<Marking method>

There are three or four digits used for the calculation number according to IEC code and "R" is used for the decimal point. MNR35 is 「R」 + three digits used for the calculation number according to IEC code.

(Unit:mm)

Part No.	Type code	(mm)	(inch)	L	W	t	a	b1	b2	c	p	Marking existence *Including jumper type
MNR02	MDAP	1005 × 2	0402 × 2	1.00 ± 0.10	1.00 ± 0.10	0.35 ± 0.10	0.20 ± 0.10	—	0.33 <sup>+0.10</sup> <sub>-0.05</sub>	0.25 ± 0.10	0.68	No
MNR04	MDAP	1005 × 4	0402 × 4	2.00 ± 0.10	1.00 ± 0.10	0.35 ± 0.10	0.20 ± 0.10	0.30 ± 0.10	0.40 ± 0.10	0.25 ± 0.10	0.5	No
MNR12	E0AP	1608 × 2	0603 × 2	1.60 ± 0.10	1.60 ± 0.10	0.50 ± 0.10	0.3 ± 0.20	—	0.60 ± 0.15	0.25 ± 0.15	0.8	Yes
MNR14	E0AP	1608 × 4	0603 × 4	3.20 ± 0.10	1.60 ± 0.10	0.50 ± 0.10	0.30 ± 0.20	0.40 ± 0.15	0.60 ± 0.15	0.25 ± 0.15	0.8	Yes
MNR15	EORP	1608 × 5	0603 × 5	3.20 ± 0.10	1.60 ± 0.10	0.50 ± 0.10	0.30 ± 0.10	0.32 ± 0.15	0.48 ± 0.15	0.30 ± 0.10	0.64	No
MNR18	E0AP	1605 × 8	0602 × 8	3.80 ± 0.10	1.60 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.10	0.30 ± 0.10	0.30 ± 0.20	0.5	No
MNR32	J0AB	3216 × 2	1206 × 2	2.60 ± 0.20	3.10 ± 0.20	0.55 ± 0.10	0.50 ± 0.30	—	1.00 ± 0.20	0.5 MAX	1.27	Yes
MNR34	J5AB	3216 × 4	1206 × 4	5.20 ± 0.40	3.10 ± 0.20	0.55 ± 0.10	0.50 ± 0.30	0.80 ± 0.20	1.00 ± 0.20	0.5 MAX	1.27	Yes
MNR35	J5R	3216 × 5	1206 × 5	6.4 ± 0.40	3.10 ± 0.20	0.55 ± 0.10	0.50 ± 0.30	0.80 ± 0.20	1.00 ± 0.20	0.50 MAX	1.27	Yes

● Land pattern example



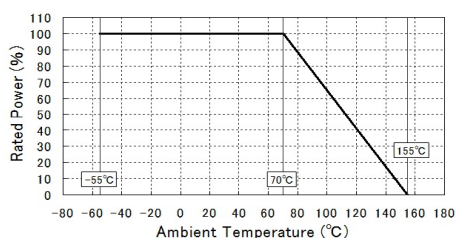
(Unit:mm)

Part No.	Type code	A	B	C	D	E	P1	P2
MNR02	MDAP	0.5	0.35 ~ 0.4	0.5	1.5	—	0.65 ~ 0.7	—
MNR04	MDAP	0.5	0.4	0.5	1.5	0.3	0.5	0.5 ~ 0.55
MNR12	E0AP	1.0	0.4 ~ 0.6	0.7 ~ 0.8	2.4 ~ 2.6	—	0.8 ~ 1.0	—
MNR14	E0AP	1.0	0.4 ~ 0.6	0.7 ~ 0.8	2.4 ~ 2.6	0.4	0.8	0.8 ~ 0.9
MNR15	EORP	1.0	0.48	0.7 ~ 0.8	2.4 ~ 2.6	0.32	0.64	0.72
MNR18	E0AP	1.0	0.3	0.7 ~ 0.8	2.4 ~ 2.6	—	0.5	—
MNR32	J0AB	2.1	0.8 ~ 1.0	0.8 ~ 1.0	3.7 ~ 4.1	—	1.27 ~ 1.6	—
MNR34	J5AB	2.1	0.8 ~ 1.0	0.8 ~ 1.0	3.7 ~ 4.1	0.7 ~ 0.8	1.27 ~ 1.35	1.27 ~ 1.45
MNR35	J5R	2.1	0.8 ~ 1.0	0.8 ~ 1.0	3.7 ~ 4.1	0.7 ~ 0.8	1.27 ~ 1.3	1.27 ~ 1.4

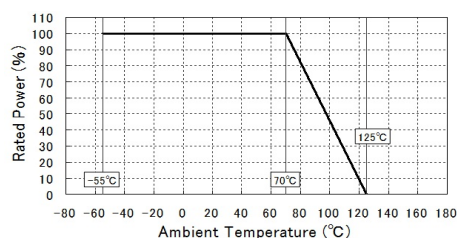
### ●Derating curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.

#### ■MNR 02/04/12/14



#### ■MNR 15/18/32/34/35



### ●Characteristics

Test items	Guaranteed value		Test conditions
	Resistor type	Jumper type	
Resistance	See "Products list"		20°C
Variation of resistance with temperature	See "Products list"		Measurement: +25/-55, +25/+125°C
Overload	$\pm(2.0\% + 0.1\Omega)$	MAX 50mΩ	Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.5, 2s ② Maximum overload voltage ※
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.		Rosin-ethanol solution(25% weight) Soldering condition: 245±5°C Duration of immersion: 2.0±0.5s
Resistance to soldering heat	$\pm(1.0\% + 0.05\Omega)$ $\pm(1.0\% + 0.1\Omega)$ ※MNR35 No remarkable abnormality on the appearance.	MAX 50mΩ	Soldering condition: 260±5°C Duration of immersion: 10±1s
Rapid change of temperature	$\pm(1.0\% + 0.05\Omega)$ $\pm(1.0\% + 0.1\Omega)$ ※MNR35	MAX 50mΩ	Test temp : -55°C~+125°C 5cycle
Damp heat, steady state	$\pm(3.0\% + 0.1\Omega)$	MAX 100mΩ	40°C, 93%(Relative humidity) Test time : 1,000h
Endurance at 70°C	$\pm(3.0\% + 0.1\Omega)$	MAX 100mΩ	Rated voltage(current),70°C 1.5h:ON—0.5h:OFF Test time : 1,000h
Endurance	$\pm(3.0\% + 0.1\Omega)$	MAX 100mΩ	155°C(MNR02/04/12/14) 125°C(MNR15/18/32/34/35) Test time : 1,000h
Resistance to solvent	$\pm(1.0\% + 0.05\Omega)$ $\pm(1.0\% + 0.1\Omega)$ ※MNR35	MAX 50mΩ	23±5°C, Immersion cleaning, 5±0.5min Solvent: 2-propanol
Bend strength of the end face plating	$\pm(1.0\% + 0.05\Omega)$ Without mechanical damage such as breaks.	MAX 50mΩ	-

Compliance Standard(s) : IEC60115-8  
JISC 5201-8

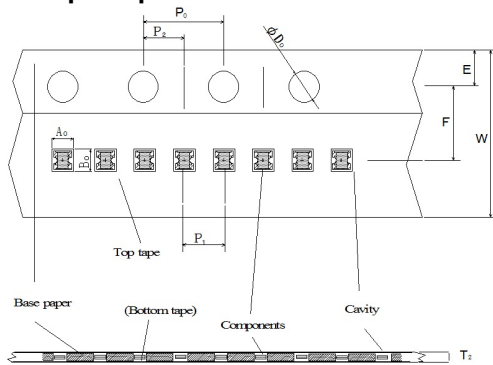
※Maximum overload voltage (Test voltage)

MNR02	MNR04	MNR12	MNR14	MNR15	MNR18	MNR32	MNR34	MNR35
50V	50V	100V	100V	25V	50V	400V	400V	100V

●Tape dimensions

■Paper tape

(Unit : mm)

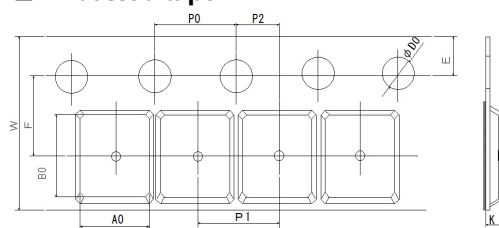


Part No.	Type code	W	F	E	A0	B0
MNR02	MDAP	8.0±0.3	3.5±0.05	1.75±0.1	1.17±0.1	1.17±0.1
MNR04	MDAP	8.0±0.3	3.5±0.05	1.75±0.1	1.2±0.1	2.2±0.1
MNR12	EDAP	8.0±0.3	3.5±0.05	1.75±0.1	1.8±0.1	1.8±0.1
MNR14	EDAP	8.0±0.3	3.5±0.05	1.75±0.1	1.8±0.1	3.4±0.1
MNR15	EORP	8.0±0.3	3.5±0.05	1.75±0.1	1.8±0.1	3.4±0.1
MNR18	EDAP	8.0±0.3	3.5±0.05	1.75±0.1	1.95±0.15	4.1±0.15

Part No.	Type code	W	F	E	A0	B0
MNR02	MDAP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	2.0±0.1	2.0±0.05	MAX0.5
MNR04	MDAP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	2.0±0.1	2.0±0.05	MAX1.1
MNR12	EDAP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MNR14	EDAP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MNR15	EORP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MNR18	EDAP	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1

■Embossed tape

(Unit : mm)

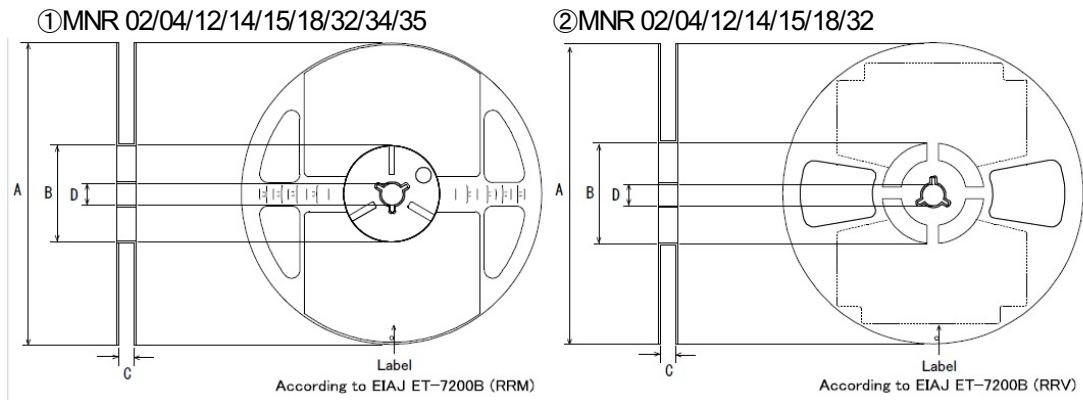


Part No.	Type code	W	F	E	A0	B0
MNR32	J0AB	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
MNR34	J5AB	12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.1	5.6±0.1
MNR35	J5R	12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.1	6.6±0.1

Part No.	Type code	W	F	E	A0	B0
MNR32	J0AB	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	0.9±0.1
MNR34	J5AB	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	1.0±0.15
MNR35	J5R	Φ1.5 <sup>+0.1</sup> <sub>0</sub>	4.0±0.1	4.0±0.1	2.0±0.05	1.0±0.15

●Reel dimensions

Using two kinds reets for taping.



(Unit : mm)

Part No.	Type code	A	B	C	D
MNR02	MDAP	$\Phi 180 \begin{smallmatrix} 0 \\ -1.5 \end{smallmatrix}$	$\Phi 60 \begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$	$9 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	$\Phi 13 \pm 0.2$
MNR04	MDAP				
MNR12	EOAP				
MNR14	EOAP				
MNR15	EOFP				
MNR18	EOAP				
MNR32	J0AB			$13 \begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$	
MNR34	J5AB				
MNR35	J5R				

# Notice

## Precaution on using ROHM Products

1. If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment <sup>(Note 1)</sup>, aircraft/spacecraft, nuclear power controllers, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	USA	EU	CHINA
CLASS III	CLASS III	CLASS II b	CLASS III
CLASS IV		CLASS III	

2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
  - [a] Installation of protection circuits or other protective devices to improve system safety
  - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
3. Our Products are not designed under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc. prior to use, must be necessary:
  - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
  - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
  - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
  - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
  - [f] Sealing or coating our Products with resin or other coating materials
  - [g] Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
  - [h] Use of the Products in places subject to dew condensation
4. The Products are not subject to radiation-proof design.
5. Please verify and confirm characteristics of the final or mounted products in using the Products.
6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse. is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
8. Confirm that operation temperature is within the specified range described in the product specification.
9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

## Precaution for Mounting / Circuit board design

1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification



**Precautions Regarding Application Examples and External Circuits**

1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

**Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of ionizer, friction prevention and temperature / humidity control).

**Precaution for Storage / Transportation**

1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
  - [a] the Products are exposed to sea winds or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

**Precaution for Product Label**

A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

**Precaution for Disposition**

When disposing Products please dispose them properly using an authorized industry waste company.

**Precaution for Foreign Exchange and Foreign Trade act**

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

**Precaution Regarding Intellectual Property Rights**

1. All information and data including but not limited to application example contained in this document is for reference only. ROHM does not warrant that foregoing information or data will not infringe any intellectual property rights or any other rights of any third party regarding such information or data.
2. ROHM shall not have any obligations where the claims, actions or demands arising from the combination of the Products with other articles such as components, circuits, systems or external equipment (including software).
3. No license, expressly or implied, is granted hereby under any intellectual property rights or other rights of ROHM or any third parties with respect to the Products or the information contained in this document. Provided, however, that ROHM will not assert its intellectual property rights or other rights against you or your customers to the extent necessary to manufacture or sell products containing the Products, subject to the terms and conditions herein.

**Other Precaution**

1. This document may not be reprinted or reproduced, in whole or in part, without prior written consent of ROHM.
2. The Products may not be disassembled, converted, modified, reproduced or otherwise changed without prior written consent of ROHM.
3. In no event shall you use in any way whatsoever the Products and the related technical information contained in the Products or this document for any military purposes, including but not limited to, the development of mass-destruction weapons.
4. The proper names of companies or products described in this document are trademarks or registered trademarks of ROHM, its affiliated companies or third parties.

**General Precaution**

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[Distribution Inventory](#)

Part Number	MNR02M0APJ
Package	
Unit Quantity	10000
Minimum Package Quantity	10000
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes