



Dear Valued Customer
I/FUTURE.

Doc. No.: 4822004
Issue date: March 1, 2022

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Module Headquarters
ROHM Co., Ltd.

Notification of Product/Process Change

This is an announcement of change(s) to the process of the products currently supplied by ROHM Co., Ltd.

We request your acknowledgement of the receipt of this notification within the given period.

Please reply by: September 30, 2022

Title of change	Photo interrupter RPI-0 series AI bag packing specifications unification change application	
Affected product(s)	Manufacturer part number	Customer part number
	RPI-0* series	RPI-0226(B105-030-A004)
Detailed description of change	Now	After
	The current situation depends on the model. Unified after change.	① Indicator enclosed ② With MSL notation ③ AI bag without vacuuming
Reason for change	Unification to JEDEC-compliant packaging specifications.	
Anticipated impact on quality	Since only the packing condition is changed, there is no effect on quality and characteristics.	
Identification of change	Can be identified by the shipping lot number.	
Planned first ship date :	December 1, 2022	Sample available schedule Within 8 weeks from request
Attachments (data, report)	YES	4ME4822004.pdf
Comments		

		Reply date	
Customer reply	<input type="checkbox"/> 1. Approved. <input type="checkbox"/> 2. Accepted with conditions. <input type="checkbox"/> 3. Rejected.		
Condition for approval / reason for rejection			
Comments			
Customer company name			
Customer signature		Department	
Customer signature		Department	



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Notification of Product/Process Change

Doc. No.: 4822004

This letter intends as a formal notification of change to products which are currently supplied by ROHM Co., Ltd.

ROHM Co., Ltd. requires customers to provide acknowledgment of the receipt of this notification within 30 days from the date of this notice. Lack of acknowledgment of this notice within 30 days is considered as acceptance of the change.

Your understanding and cooperation would be highly appreciated.

Issue Date: March 1, 2022

Issued Date: March 2, 2022		
Title of change	Photo interrupter RPI-0 series AI bag packing specifications unification change application	
Identification of change	Can be identified by the shipping lot number.	
Affected product(s)	Manufacturer part number	Customer part number
	RPI-0* series	B105-030-A004 / RPI-0226
Detailed description of change	Before	After
	The current situation depends on the model. Unified after change.	① Indicator enclosed ② With MSL notation ③ AI bag without vacuuming
Reason for change	Unification to JEDEC-compliant packaging specifications and prevention of AI bag tearing during transportation	
Anticipated impact on form, fit, function, quality or reliability	Since only the packing condition is changed, there is no effect on quality and characteristics.	
Planned first ship date		December 1, 2022
Qualification plan schedule, results and samples	If required, please contact the local ROHM sales office or the authorized distributor.	
Comments		
Supplier contact	Please contact the local ROHM sales office or the authorized distributor.	
Notes		
After acknowledgement of the customer, lack of additional response within 90 day period constitutes acceptance of the change according to JEDEC Standard J-STD-046.		



Photo interrupter RPI-0 series AI bag packing specifications unification change application

No. 4822004
Mar. 1, 2022
ROHM Co., Ltd.
Module Corporate Headquarters
Module Quality Control Department

Outline



【Target Device model】

RPI-0 series (surface mount type photo interrupters, see the table on the right)

【Content of Change】

The following three points are unified for the reel packing specifications in aluminum bags.

① Humidity Indicator Card is included.

… Follows J-STD-033D Table 3-1 Dry Packing Requirements

② Mark MSL on the aluminum bag.

… Follows J-STD-033D 3.3.3 Labels

③ Abolish air discharge (evacuation) in the aluminum bag.

… Follows J-STD-033D 3.3.5.3 Moisture Barrier Bag Sealing

【Background】

Conventionally, the packaging specifications for surface-mounted photo interrupters have been met according to the user's request.

As a result, some models were inconsistent with the JEDEC specifications, and the packaging specifications differed for each model, which made the management of error prevention complicated.

Therefore, we will change all models of surface-mounted photo interrupters to packaging specifications that comply with JEDEC specifications.

【Scheduled change date】

October 1, 2022

Target Device Model
RPI-0126A
RPI-0126K
RPI-0126P
RPI-0127B
RPI-0127W2B
RPI-0128
RPI-0128G
RPI-0128G1
RPI-0128G1Z1
RPI-0128M
RPI-0128T81
RPI-0128W1
RPI-0128W2
RPI-0128W2C
RPI-0128W3
RPI-0128W5
RPI-0128X
RPI-0129
RPI-0132
RPI-0225
RPI-0226
RPI-0226S030150
RPI-0226V
RPI-0226V1
RPI-0226V1S00
RPI-0226Z1
RPI-0227EV
RPI-0441E
RPI-0451E

4M Change Sheet



No.	Item		Before	After
1	Purpose of change		The packaging specifications, which are different depending on the model, will be unified to the JEDEC specifications. (1)Includes a humidity indicator card. (2)Mark the MSL on the aluminum bag. (3)Completely discharge the air inside the aluminum bag (vacuum packaging) will be abolished.	
2	Target device model		RPI-0 * * * (all surface mount type photo interrupters)	
3	Product structure		No change	
4	Changes in appearance (device)		No change	
5	Inclusion in aluminum bag Refer to P.3		Product / Reel / Taping / Drying material (1)Humidity display card is included in some models.	No change: Product / Reel / Taping / Drying material (1) Unified HIC inclusion for all models HIC
6	Changes in appearance (packing) Refer to P.4,5		(2) There is a model without MSL notation on the aluminum bag. (3)The air inside the aluminum bag is exhausted so that the outer shape of the reel can be clearly identified.	(2) Unified with MSL notation on aluminum bag. (3)The outer shape of the reel cannot be clearly identified
7	Electrical characteristics		No change	
8	Optical characteristics		No change	
9	Reliability		No change	
10	Changes in environmentally hazardous substances		No change	
11	Process Change	Machine	No change	
		Method	After exhausting the air inside the aluminum bag, seal the aluminum bag.	Does not exhaust the air inside the aluminum bag, only seals the aluminum bag
12	Specification		No change	
13	Label change		No change	
14	Management contents		No change	



Includes Humidity Indicator Card

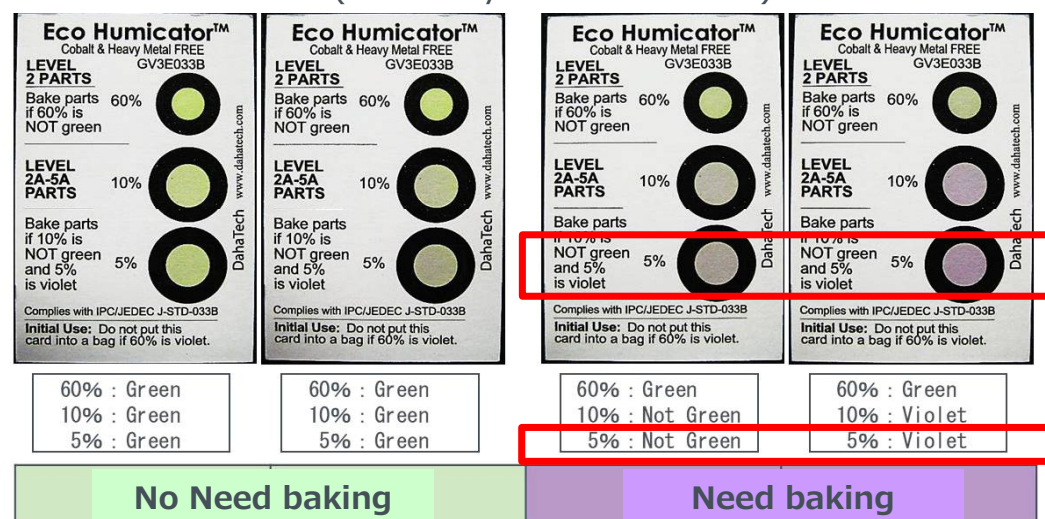
【Purpose of use of HIC】 Judgment material for judging the presence or absence of abnormalities in aluminum packaging.

【How to use】 Check the discoloration state of HIC immediately after opening the aluminum.

If there is something wrong with the aluminum packaging, the HIC display color immediately after opening will be as shown in the red frame on the right of the photo, and baking in the reel state must be carried out.

Items	Confirmation details	Conventional	JEDEC specification	Effect
HIC	Checking the moisture absorption state immediately after opening	Simple judgment by silica gel only	Humidity 5%,10% can be determined by HIC	More accurate judgement is possible

HIC(Humidity Indicator Card)



If the display color of 5% has changed to a color other than green, please perform baking in the reel state at 60°C for 12 hours.

Notation of MSL label

MSL : Moisture Sensitivity Level

I would like to unify the specifications with the following label on the aluminum bag.

Label example



Level	Floor life (Moisture absorption life when the PI package is left in the atmosphere of 30 ° C or less and 60% RH after opening the aluminum bag.) ※
3	168hr
4	72hr
5	48hr

※If you exceed the floor life, please carry out the baking process described in the specifications.

MSL will be indicated according to the specifications of each PKG, so please cooperate in storage management after opening the aluminum bag.

Abolish the air discharge in the aluminum bag

Items	Before the Change (There is air discharge in the aluminum bag)	After the Change (No air discharge in the aluminum bag)
Front Side		
Back Side		

According to J-STD-033D 3.3.5.3 Moisture Barrier Bag Sealing, in order not to deteriorate the function of the desiccant/HIC and to reduce the risk of damage to the aluminum bag on the reel outer shape, we abolish the air discharge in the aluminum bag.

Reliability test results



[Reliability test results]

As a representative, the reliability test results of the RPI-0441E design modified product are described below.

Test item	Test conditions	N	Judgment conditions	Pn/n	Judgement
Drop test	Fall from a height of 1.5m 3 times	1 reel (1000pcs)	No bag punk No reel deformation No product damage	0/1(1000pcs)	OK
Vibration test	frequency 10~55 Hz acceleration 1.5G 2hr×3acceleration (XYZ)	1 reel (1000pcs)		0/1(1000pcs)	OK

<Opinion>

As a result of the above reliability test, it is judged that there is no problem in the reliability due to the change of packaging specifications.

