

## Modifications Notices

Pushbutton Switches/Indicators

Issue Date  
November 1, 2019

No. RS-Z-1909023

### Modification Notice of Push button lightness of Indicator (Cylindrical 8-dia.) M2D series due to parts discontinuation

#### << REQUEST >>

There was modification in portion of modification notices of Product News No. RS-Z-1905016 of May 2019 issue. What we have changed is as follows;

1. Change of Specifications and lightness of built-in LED Lamp,
  2. Change effective date from January, 2020 to May, 2020
- Please abolish old edition, replace the latest No. RS-Z-1909023.

#### [ Effective Date ]

Effective as of our production in **May, 2020**.

#### [ Applicable Model ]

Model M2D□-5 series

Model M2D□-9 series

< Refer to the " [ Details of applicable model ] " . >

#### [ Reason for change ]

LED parts discontinuation of production.

#### [ Change of products specification ]

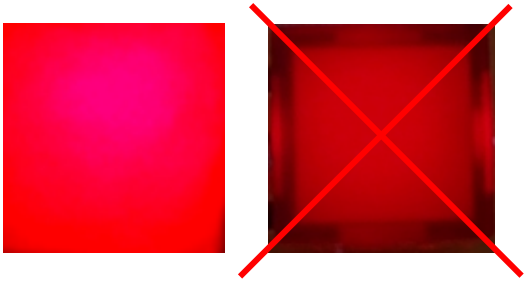
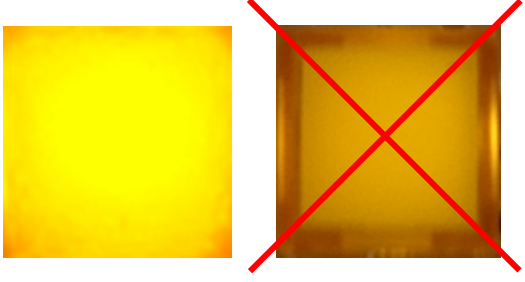
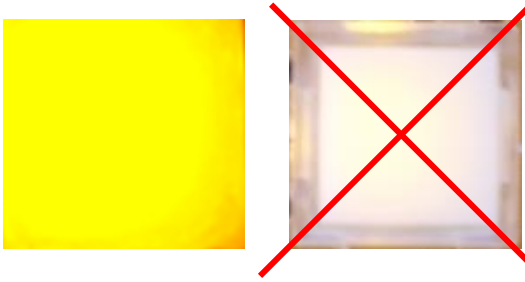
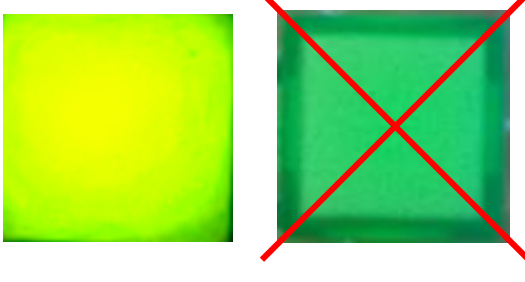

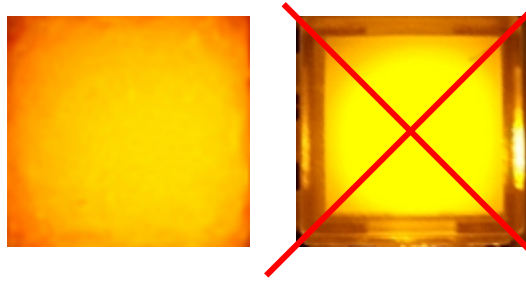
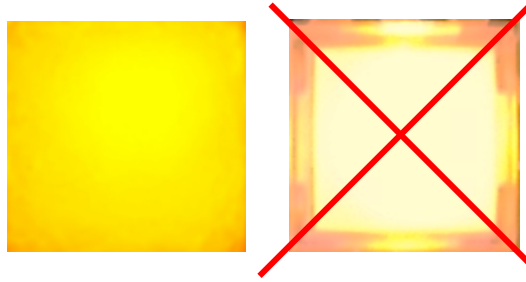
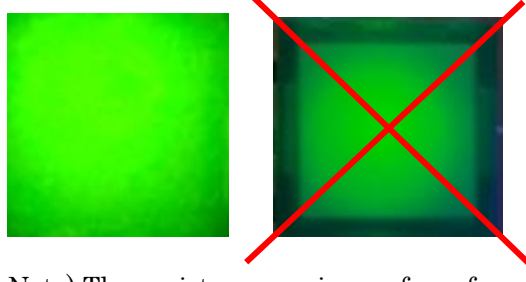
Necessary



[ Changes ]

| Before the change   |                            |        | After the change  |                            |             |
|---|----------------------------|--------|---|----------------------------|-------------|
| <b>Specifications of built-in LED Lamp</b>                      |                            |        | <b>Specifications of built-in LED Lamp</b>                      |                            |             |
| Red: M2D□-5□R/9□ER series                                       |                            |        | Red: M2D□-5□R/9□ER series                                       |                            |             |
| Change point: $V_F$ , PD, $V_R$                                 |                            |        | Change point: $V_F$ , PD, $V_R$                                 |                            |             |
|   |                            | Rating |   |                            | Rating      |
| Forward voltage, $V_F$  | Reference value(V)         | 1.7    | Forward voltage, $V_F$  | Reference value(V)         | <b>1.85</b> |
|   | Maximum value(V)           | 2.0    |   | Maximum value(V)           | <b>2.2</b>  |
| Forward current, $I_F$  | Reference value(mA)        | 20     | Forward current, $I_F$  | Reference value(mA)        | 20          |
|   | Absolute maximum value(mA) | 50     |   | Absolute maximum value(mA) | 50          |
| Permissible dissipation, PD                                     | Absolute maximum value(mW) | 100    | Permissible dissipation, PD                                     | Absolute maximum value(mW) | <b>110</b>  |
| Reverse voltage, $V_R$  | Absolute maximum value(V)  | 4      | Reverse voltage, $V_R$  | Absolute maximum value(V)  | 5           |
| Yellow: M2D□-5□Y/9□EY series<br>White: M2D□-5□W/9□EW series     |                            |        | Yellow: M2D□-5□Y/9□EY series<br>White: M2D□-5□W/9□EW series     |                            |             |
| Change point: $V_F$ , $I_F$ (Absolute maximum value), PD, $V_R$ |                            |        | Change point: $V_F$ , $I_F$ (Absolute maximum value), PD, $V_R$ |                            |             |
|   |                            | Rating |   |                            | Rating      |
| Forward voltage, $V_F$  | Reference value(V)         | 2.2    | Forward voltage, $V_F$  | Reference value(V)         | <b>2.1</b>  |
|   | Maximum value(V)           | 2.5    |   | Maximum value(V)           | 2.4         |
| Forward current, $I_F$  | Reference value(mA)        | 20     | Forward current, $I_F$  | Reference value(mA)        | 20          |
|   | Absolute maximum value(mA) | 50     |   | Absolute maximum value(mA) | 30          |
| Permissible dissipation, PD                                     | Absolute maximum value(mW) | 125    | Permissible dissipation, PD                                     | Absolute maximum value(mW) | 72          |
| Reverse voltage, $V_R$  | Absolute maximum value(V)  | 4      | Reverse voltage, $V_R$  | Absolute maximum value(V)  | 5           |
| Green: M2D□-5□G/9□EG series                                     |                            |        | Green: M2D□-5□G/9□EG series                                     |                            |             |
| Change point: $V_F$ , $I_F$ (Absolute maximum value), PD, $V_R$ |                            |        | Change point: $V_F$ , $I_F$ (Absolute maximum value), PD, $V_R$ |                            |             |
|   |                            | Rating |   |                            | Rating      |
| Forward voltage, $V_F$  | Reference value(V)         | 2.1    | Forward voltage, $V_F$  | Reference value(V)         | <b>2.3</b>  |
|   | Maximum value(V)           | 2.5    |   | Maximum value(V)           | <b>2.5</b>  |
| Forward current, $I_F$  | Reference value(mA)        | 20     | Forward current, $I_F$  | Reference value(mA)        | 20          |
|   | Absolute maximum value(mA) | 50     |   | Absolute maximum value(mA) | 30          |
| Permissible dissipation, PD                                     | Absolute maximum value(mW) | 125    | Permissible dissipation, PD                                     | Absolute maximum value(mW) | <b>75</b>   |
| Reverse voltage, $V_R$  | Absolute maximum value(V)  | 4      | Reverse voltage, $V_R$  | Absolute maximum value(V)  | 5           |

[ Changes ]

| Before the change  | After the change  |
|--|---|
| <p><b>Illumination lightness of display (<math>I_F=20mA</math>)</b></p> <p>Red: M2D□-5□R/9□ER series</p>  <p>Yellow: M2D□-5□Y/9□EY series</p>  <p>White: M2D□-5□W/9□EW series</p>  <p>Green: M2D□-5□G/9□EG series</p>  | <p><b>Illumination lightness of display (<math>I_F=20mA</math>)</b></p> <p>Red: M2D□-5□R/9□ER series</p>  <p>Yellow: M2D□-5□Y/9□EY series</p>  <p>White: M2D□-5□W/9□EW series</p>  <p>Green: M2D□-5□G/9□EG series</p>  <p>Note) These pictures are image for reference.</p> |

Note) By this modification, there is no change in outline dimensions.

**[ Details of applicable model ]**

| Models         | Specification |
|----------------|---------------|
| M2DA-500GY     |               |
| M2DA-500R      |               |
| M2DA-500W      |               |
| M2DA-500Y      |               |
| M2DA-90A1-00EG |               |
| M2DA-90A1-00ER |               |
| M2DA-90A1-00EW |               |
| M2DA-90A1-00EY |               |
| M2DJ-500GY     |               |
| M2DJ-500R      |               |
| M2DJ-500W      |               |
| M2DJ-500Y      |               |
| M2DJ-90A1-00EG |               |
| M2DJ-90A1-00ER |               |
| M2DJ-90A1-00EW |               |
| M2DJ-90A1-00EY |               |
| M2DT-500GY     |               |
| M2DT-500R      |               |
| M2DT-500W      |               |
| M2DT-500Y      |               |
| M2DT-90A1-00EG |               |
| M2DT-90A1-00ER |               |
| M2DT-90A1-00EW |               |
| M2DT-90A1-00EY |               |

Specifications in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.