

# PRODUCT / PROCESS CHANGE NOTIFICATION

## PCN-000863

Date: OCT-20-2022

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Semtech Corporation, 200 Flynn Road, Camarillo CA 93012

### Change Details

#### Part Number(s) Affected:

Please see affected part numbers on the following page.

Customer Part Number(s) Affected: ☒ N/A

#### Description, Purpose and Effect of Change:

Hisense, a CM for Semtech, has upgraded its print marking from ink to 2D laser marking. This change will be applied to the affected numbers on ROSA products that use metal barrels.

Since December 2020, 2D laser marking has been implemented on two ROSA products, GN3368-3EC8AU8E3 and GN3362-3EJ2AX2E3.

| OLD                                                                                                                                                                                                                                                                                                                        | NEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ink Marking                                                                                                                                                                                                                                                                                                                | 2D laser marking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|  <ul style="list-style-type: none"> <li>Serial number is the marking on the metal barrel as seen by naked eye.</li> <li>UM-X1 label is Hisense internal bar code. UM is short for Semtech and X1 is Hisense production code.</li> </ul> |   <ul style="list-style-type: none"> <li>Serial number is the marking on the metal barrel as seen by naked eye or by a scanner.</li> <li>UM-X1 is included in the 2D laser marking. For example, when you scan the 2D barcode in the 1st photo, you will get the information "UM-X1-102345-069". 102345 is the serial number, and 069 is the ROSA's sequence/location in a packing tray.</li> </ul> |

|                       |                                                                          |                               |                                                                     |
|-----------------------|--------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------|
| Change Classification | <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor | Impact to Form, Fit, Function | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Impact to Data Sheet  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      | New Revision or Date          | <input checked="" type="checkbox"/> N/A                             |

#### Impact to Performance, Characteristics or Reliability:

There is no impact to form, fit, function, performance, characteristics, or reliability.

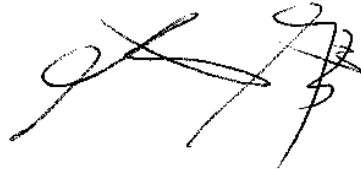
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|                                                                       |                                                                                    |                                                |            |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------|------------|
| <b>Implementation Date</b>                                            | <b>JAN-20-2023</b>                                                                 | <b>Work Week</b>                               | <b>03</b>  |
| <b>Last Time Ship (LTS)</b><br>Of unchanged product                   | <b>N/A</b>                                                                         | <b>Affecting Lot No. /<br/>Serial No. (SN)</b> | <b>N/A</b> |
| <b>Sample Availability</b>                                            | <b>SEP-26-2022</b><br>No FG samples, only bare metal barrel with 2D laser marking. | <b>Qualification Report Availability</b>       | <b>N/A</b> |
| <b>Supporting Documents for Change Validation/Attachments:</b><br>N/A |                                                                                    |                                                |            |

| <b>Issuing Authority</b>                                                                                                                                                         |                                                                 |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Semtech Business Unit:</b>                                                                                                                                                    | Signal Integrity Product Group (SIP)                            |                                                                                      |
| <b>Semtech Contact Info:</b>                                                                                                                                                     | Pedro Jr. Bernas<br>pbernas@semtech.com<br>(289) 856-9326 x1162 |  |
| <b>FOR FURTHER INFORMATION &amp; WORLDWIDE SALES COVERAGE:</b> <a href="http://www.semtech.com/contact/index.html#support">http://www.semtech.com/contact/index.html#support</a> |                                                                 |                                                                                      |

• **Part Number(s) Affected:**

|    |                  |    |                  |
|----|------------------|----|------------------|
| 1  | GN3052-3EA5AG9E3 | 16 | GN3357-3EB9AS6E3 |
| 2  | GN3252-3EB8AT3E3 | 17 | GN3357-3EB9AT6E3 |
| 3  | GN3252-3EB8AW5E3 | 18 | GN3357-3EB9AU2E3 |
| 4  | GN3257-3EB9AT5E3 | 19 | GN3357-3EB9AU7E3 |
| 5  | GN3257-3EB9AU2E3 | 20 | GN3357-3EB9AW3E3 |
| 6  | GN3257-3EB9BA6E3 | 21 | GN3357-3ED9AU2E3 |
| 7  | GN3268-3EB7AM8E3 | 22 | GN3357-3ED9AW3E3 |
| 8  | GN3270-3EC7AV3E3 | 23 | GN3358-3EF8AT9E3 |
| 9  | GN3289-3ED7BC2E3 | 24 | GN3358-3EF8AU2E3 |
| 10 | GN3352-3EB8AQ9E3 | 25 | GN3358-3EF8AW3E3 |
| 11 | GN3352-3EB8AS6E3 | 26 | GN3358-3EF9AU2E3 |
| 12 | GN3352-3EB8AT4E3 | 27 | GN3361-3EJ3AY2E3 |
| 13 | GN3352-3EB8AW4E3 | 28 | GN3362-3EJ2AX2E3 |
| 14 | GN3357-3EB8AW4E3 | 29 | GN3368-3EC8AT6E3 |
| 15 | GN3357-3EB9AQ9E3 | 30 | GN3368-3EC8AU8E3 |

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- **Process Flow Comparison**

| ROSA Process     | Ink marking                      | 2D laser marking                 |
|------------------|----------------------------------|----------------------------------|
| ORL test         | check serial number by naked eye | check serial number by naked eye |
| Sensitivity test | check serial number by naked eye | check serial number by naked eye |
| Open Short test  | check serial number by naked eye | check serial number by naked eye |
| Outgoing Data    | check serial number by naked eye | check serial number by scanner   |

- **2D Laser Marking**

1. Laser marking machine



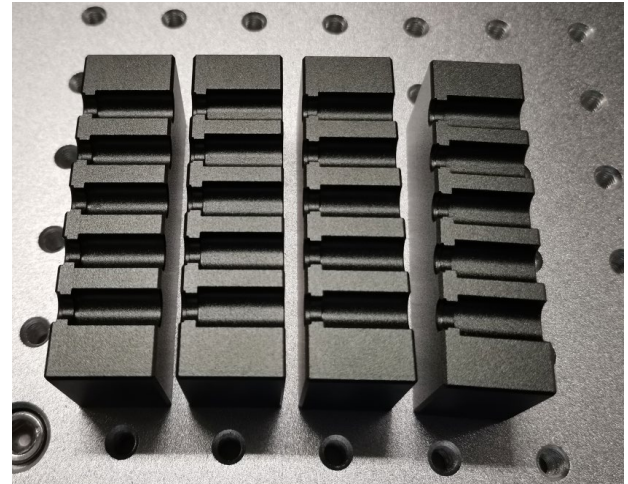
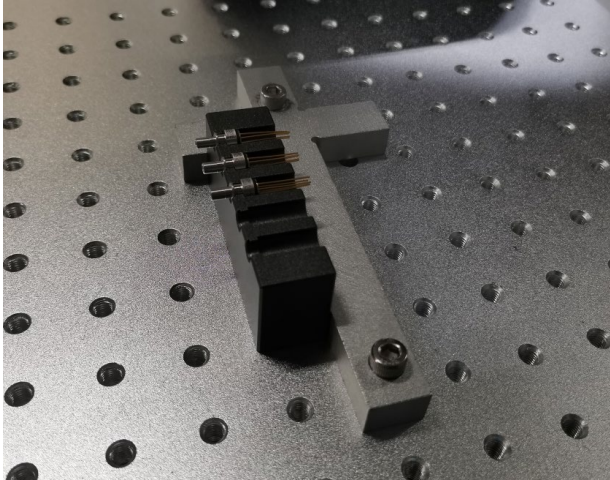
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### 2. Laser marking fixture

- The fixture is based on barrel variety. There are two types of barrel fixtures at present (round and square).



### 3. 2D Laser marking sample photos

- 2D marking size is 2mm x 2mm.

