

# 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 Ink Marking	NEW 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>

<b>Change Classification</b>	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	<b>Impact to Form, Fit, Function</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Impact to Data Sheet</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>New Revision or Date</b>	<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> <small>Of unchanged product</small>	<b>N/A</b>	<b>Affecting Lot No. / Serial No. (SN)</b>	<b>N/A</b>
<b>Sample Availability</b>	<b>SEP-26-2022</b> 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> N/A			

Issuing Authority	
<b>Semtech Business Unit:</b>	Signal Integrity Product Group (SIP)
<b>Semtech Contact Info:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Pedro Jr. Bernas pbernas@semtech.com (289) 856-9326 x1162</p> </div> <div style="width: 35%; text-align: center;"> </div> </div>
<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



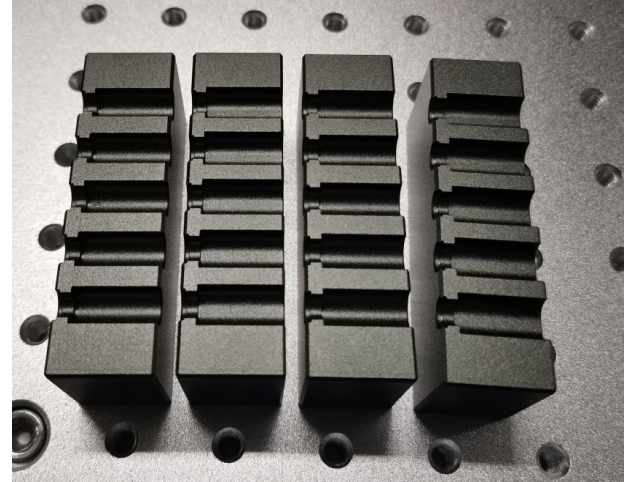
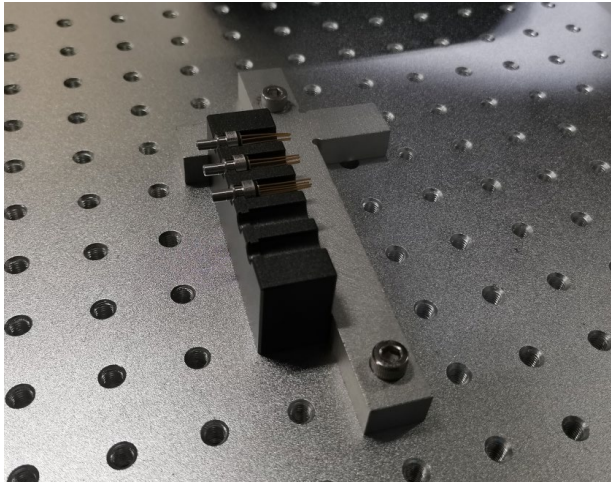
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2. Laser marking fixture

- 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.

