



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000755

Date: OCT-21-2021

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Semtech Corporation, 200 Flynn Road, Camarillo CA 93012

Change Details

Part Number(s) Affected: Please see the list on the next page.	Customer Part Number(s) Affected: <input checked="" type="checkbox"/> N/A
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Description, Purpose and Effect of Change:

Chipbond, a Semtech supplier, is expanding its laser marking capacity with the addition of a new laser marking machine. The new laser marking machine, EO CSM3302FC, is equipped with the same technology as the current machine, EO CSM2000/CSM3000.

Please see the following pages for more information.

Change Classification	<input type="checkbox"/> Major <input checked="" 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:

This change does not impact performance, characteristics or reliability.

Implementation Date	NOV-21-2021	Work Week	46
Last Time Ship (LTS) <small>Of unchanged product</small>	N/A	Affecting Lot No. / Serial No. (SN)	N/A
Sample Availability	N/A	Qualification Report Availability	N/A

Supporting Documents for Change Validation/Attachments:

- N/A

Issuing Authority

Semtech Business Unit:	Signal Integrity Product Group (SIP)		
Semtech Contact Info:	Pedro Jr. Bernas Quality Assurance pbernas@semtech.com (289) 856-9326 x1162		

FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: <http://www.semtech.com/contact/index.html#support>

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Part Number(s) Affected					
1	GN2104SA-IBE3	11	GN2904S-IBTE3D	21	SX9311ICSTRT
2	GN2104SC-IBE3	12	SC21150ACSTRT	22	SX9311YICSTRT
3	GN2104SC-IBTE3D	13	SC33020HCSTRT	23	SX9311ZICSTRT
4	GN2104S-IBE3	14	SC725CSTRT	24	SX9320ICSTRT
5	GN2104S-IBTE3D	15	SX6100BCCSTRT	25	SX9322ICSTRT
6	GN2139C-IBE3	16	SX6202ACCSTRT	26	SX9323ICSTRT
7	GN2139C-IBTE3D	17	SX9210ICSTRT	27	SX9324ICSTRT
8	GN24L60-CSP-TR	18	SX9306ICBTRT	28	SX9325ICSTRT
9	GN24L61-CSP-TR	19	SX9310ICSTRT	29	SX9328ICSTRT
10	GN2904S-IBE3	20	SX9310ICSTRT-C	30	SX9330ICSTRT

MACHINE COMPARISON

	EO CSM2000 / 3000 (Current)	EO CSM3302FC (New)
Machine		
Laser type	Green laser	Green laser
Wavelength	532nm	532nm
Maximum power	3W	5W
Support Wafer size	6"~12"	8" / 12"
Marking Accuracy	±75um	±50um
Repeatability	±25um	±25um
Marking Method	Direct Marking	Direct Marking
Available wafer thickness	≥150um	≥150um
Marking Depth	<5um	<5um
Target dot size	40um	40um
Laser marking appearance		

* Note: The new machine has two laser marking modules (Laser 1 & Laser 2) that will increase productivity. There is only one laser marking module in the current machine.




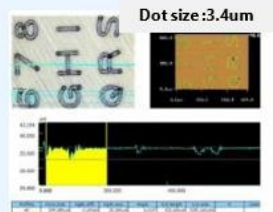
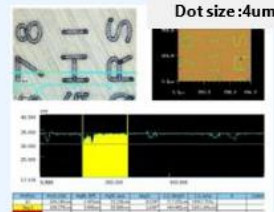
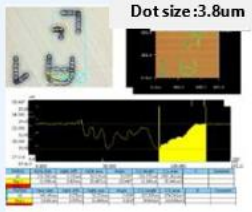
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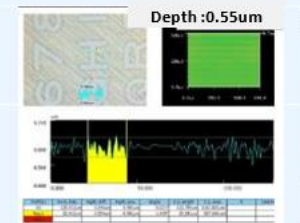
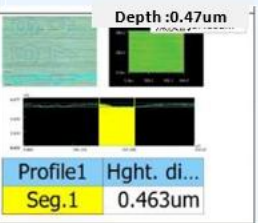
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MARKING DEPTH Comparison (Sample Marking 1)

Laser item	New Machine Laser 1	New Machine Laser 2	Current Machine
OM	 <p>Dot size:31.9um</p>	 <p>Dot size:30.8um</p>	 <p>Dot size:35um</p>
Marking Depth	 <p>Dot size:3.4um</p>	 <p>Dot size:4um</p>	 <p>Dot size:3.8um</p>

* There is no significant difference between the new and current machines.

MARKING DEPTH Comparison (Sample Marking 2)

Laser item	New Machine Laser 1	New Machine Laser 2	Current Machine
OM	 <p>Dot size:33.6um</p>	 <p>Dot size:30.8um</p>	 <p>Dot size:30um</p>
Marking Depth	 <p>Depth :0.55um</p>	 <p>Depth :0.55um</p>	 <p>Depth :0.47um</p> <p>Profile1 Hght. di... Seg.1 0.463um</p>

* There is no significant difference between the new and current machines.






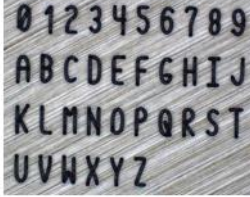


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New Machine: Comparison of Laser 1 and Laser 2 markings (different fonts)

Laser item	Font Arial size 150*150 um	Font Consolas size 100*200um	Font Arial size 150*150 um	Font Consolas size 100*200um
	Sample Marking 1		Sample Marking 2	
Laser 1				
				

* There is no significant difference between the two laser markings.