




# PRODUCT / PROCESS CHANGE NOTIFICATION

## PCN-000755

Date: OCT-21-2021

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Semtech Corporation, 200 Flynn Road, Camarillo CA 93012			
<b>Change Details</b>			
<b>Part Number(s) Affected:</b>  Please see the list on the next page.		<b>Customer Part Number(s) Affected:</b> <input checked="" type="checkbox"/> N/A	
<b>Description, Purpose and Effect of Change:</b>  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.			
<b>Change Classification</b>	<input type="checkbox"/> Major <input checked="" 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
<b>Impact to Performance, Characteristics or Reliability:</b>  This change does not impact performance, characteristics or reliability.			
<b>Implementation Date</b>	NOV-21-2021	<b>Work Week</b>	46
<b>Last Time Ship (LTS)</b> Of unchanged product	N/A	<b>Affecting Lot No. / Serial No. (SN)</b>	N/A
<b>Sample Availability</b>	N/A	<b>Qualification Report Availability</b>	N/A
<b>Supporting Documents for Change Validation/Attachments:</b> • N/A			

<b>Issuing Authority</b>	
<b>Semtech Business Unit:</b>	Signal Integrity Product Group (SIP)
<b>Semtech Contact Info:</b>	Pedro Jr. Bernas Quality Assurance pbernas@semtech.com (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>	

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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

Machine	EO CSM2000 / 3000 (Current)	EO CSM3302FC (New)
		
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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### MARKING DEPTH Comparison (Sample Marking 1)

Laser item	New Machine Laser 1	New Machine Laser 2	Current Machine
OM			
Marking Depth			

\* 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			
Marking Depth			

\* 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				
Laser 2				

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