

PRODUCT / PROCESS CHANGE NOTIFICATION PCN-000755

Date: OCT-21-2021 P1/4

Semtech Corporation, 200 Flynn Road, Camarillo CA 93012						
Change Details						
Part Number(s) Affects	ed:	Customer Part Number(s) Affected: ⊠ N/A				
Please see the list on the next page.						
Description, Purpose a	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	☐ Major ⊠ Mino	Impact to Form, Fit, Function	☐ Yes ⊠ No			
Impact to Data Sheet	☐ Yes ⊠ No	New Revision or Date	⊠ 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) Of unchanged product	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						
Incuing Authority						

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				



PRODUCT / PROCESS CHANGE NOTIFICATION PCN-000755

Date: OCT-21-2021 P2/4

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	
	01234	01234	
Laser marking appearance	56789	ABCDE	

^{*} 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.



PRODUCT / PROCESS CHANGE NOTIFICATION PCN-000755

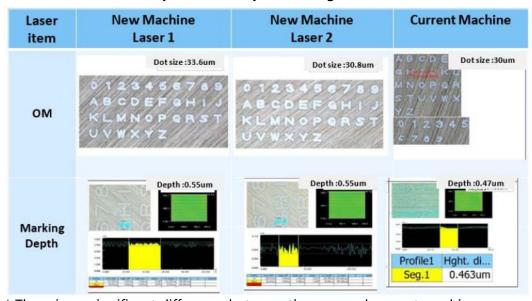
Date: OCT-21-2021 P3/4

MARKING DEPTH Comparison (Sample Marking 1)

Laser item	New Machine Laser 1	New Machine Laser 2	Current Machine
ом	Dot size:31.9um 0 12 5 4 5 6 7 4 9 ABCDEFQHIJ KLMNOPORST	Dotsize:30.8um 0 1 2 3 4 5 6 7 8 9 A 8 C D E F Q H J	Dot size:35um HILLKU NOPAA TUVWX YZ
Marking Depth	Dot size :3.4um	Dot size :4um	Dot size:3.8um

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

MARKING DEPTH Comparison (Sample Marking 2)



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



PRODUCT / PROCESS CHANGE NOTIFICATION PCN-000755

Date: OCT-21-2021 P4/4

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

Laser item	Font Arial size	Font Consolas size	Font Arial size	Font Consolas size
	150*150 um	100*200um	150*150 um	100*200um
Laser 1	Sample Marking 1		Sample Marking 2	
	01254SE789 ABCDEFRHIJ KLMNOPERST UVWXYZ	0123456789 ABCDEFGHIJ KLMNOPORST UVHXYZ	D123456769 ABCDEF&HIJ KLMNOPQRST UVWXYZ	0123456789 ABCDEFGHIJ KLMNOPORST UVWXYZ
Laser 2	01284SE78S	0123456789	0123456789	0123456789
	ABCDEFRHIJ	ABCDEFGHIJ	ABCDEFAHIJ	ABCDEFCHIJ
	KLMNOPGAST	KLMNOPORST	KLMNOPQRST	KLMNOPORST
	UVWXYZ	UVNXYZ	UVWXYZ	UVWXYZ

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