



PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000582

Date: Sep 19 2019

P1/2

- Semtech Corporation, 200 Flynn Road, Camarillo CA 93012
- Semtech Canada Corporation, 4281 Harvester Road, Burlington, Ontario L7L 5M4 Canada
- Semtech Irvine, 5141 California Ave., Suite 100, Irvine CA 92617
- Semtech Neuchatel Sarl, Route des Gouttes d'Or 40, CH-2000 Neuchatel Switzerland
- Semtech Bristol - EMEA Limited, Block B, St James Court, Great Park Road, Bristol BS32 4QJ, UK
- Semtech Corpus Christi SA de CV, Carretera Matamorros Edificio 7, Reynosa, Tamaulipas, Mexico 88780
- Semtech Plano, 1101 Resource Drive, Suite 121, Plano TX 75074
-

Change Details

Part Number(s) Affected:

NT20067-GRP6
 NT20R67-DTF8S
 NT20R67-GRP6
 NT23L50-GRP6
 NT24L50-GRP6
 NT24L50-DTF8S
 GN25L53-GRP6
 GN25L53B-GRP6
 NT22030-DTF8S
 NT25L51-GRP6
 NT25L59-DTF8S
 NT25L59-GRP6

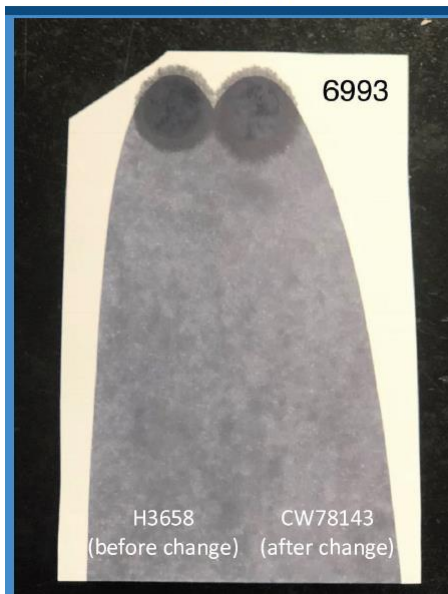
Customer Part Number(s) Affected: N/A

Description, Purpose and Effect of Change:

Supplier of 6993 black ink, used for identification of defective die on wafer, is changing composition of the ink: Removed Bisphenol A to meet EU REACH SVHC requirements EC# 201-245-8.

There is no significant deference in ink appearance, no difference in adhesion, therefore no negative effect.

9:19:56 AM 9/11/2019





PRODUCT / PROCESS CHANGE NOTIFICATION

PCN-000582

Date: Sep 19 2019

P2/2

Change Classification	<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	Impact to Form, Fit, Function	<input checked="" type="checkbox"/> Yes <input 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 affect product performance, characteristics, reliability.

9:21:40 AM 9/11/2019

Characteristic	Specification (not changed)	Lot H3658 (before change)	Lot CW78143 (after change)	Comments
Viscosity	620-720 cPs	690 cPs	660 cPs	
Initial Dot Size	279-457 μ m (11-18 mils)	326 μ m (12.85 mils)	304 μ m (12.00 mils)	20 dots dispensed with DM-1 15 Mil @ 6 dps
Dot Size Variation	\leq 25 μ m range (\leq 1 mil range)	304-330 μ m (12-13 mils)	304 μ m (12.00 mils)	20 dots dispensed with DM-1 15 Mil @ 6 dps
Dot Structure	Round & consistent	Round & consistent	Round & consistent	20 dots dispensed with DM-1 15 Mil @ 6 dps
Dot Size Difference Between Inking Rates	Dot size difference between 1 and 6 dots/second rate \leq 89 μ m (\leq 3.5 mils)	23 μ m (0.90 mils)	25 μ m (1.00 mils)	Dispensed from DM-1 15 Mil
Dot Size After 5 Minute Inking Pause	\leq 482 μ m (\leq 19 mils)	406 μ m (16 mils)	381 μ m (15 mils)	Dispensed from DM-1 15 Mil
Fineness of Grind	Streaks = 0 Background \geq 6	Streaks = 0 Background = 8	Streaks = 0 Background = 8	
Adhesion Test	Passes tape test with no cracking or removal	Passed	Passed	Pass/Fail test; minimum 100 dots sampled. Cured at 100 °C for 5 minutes.
Sodium (Na) Level	Not Specified	< 2.0 ppm	< 2.0 ppm	
Chloride (Cl) Level	Not Specified	330 ppm	320 ppm	

Implementation Date	Sept-30-2019	Work Week	WW40
Last Time Ship (LTS) Of unchanged product		Affecting Lot No. / Serial No. (SN)	
Sample Availability	Yes	Qualification Report Availability	Yes

Supporting Documents for Change Validation/Attachments:

- Certificate of conformance

Issuing Authority

Semtech Business Unit:	Signal Integrity Products	
Semtech Contact Info:	Dusanka Hewlett QMS Engineer, Quality Assurance Semtech Canada Corporation 4281 Harvester Road Burlington, ON L7L 5M4 Canada 289-856-9272 dhewlett@semtech.com	

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