



## PRODUCT / PROCESS CHANGE NOTIFICATION

### PCN-000757

Date: OCT-28-2021

P1/4

Semtech Corporation, 200 Flynn Road, Camarillo CA 93012

#### Change Details

<b>Part Number(s) Affected:</b>  GN1068-GRP6 GN7068-GRP6 GN1068-GRP6 GN7052-GRP6	<b>Customer Part Number(s) Affected:</b> <input checked="" type="checkbox"/> N/A
---	--

**Description, Purpose and Effect of Change:**

To ensure continuous supply of the affected part numbers listed above, Semtech is introducing an alternative inking tool with a new ink tube that is used in the quarter wafer process. Its purpose is to distinguish between good and bad die. The ink supplier, ink type, and ink color remain unchanged. As per the Ink Tube table on page 3, the characteristics are different.

Current	Alternative
Pneumatic inking tool and ink tube 8103A5	Electronic inking tool and ink tube 6993

More information can be found on the following pages.

<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

**Impact to Performance, Characteristics or Reliability:**

This change does not impact performance, characteristics or reliability.

<b>Implementation Date</b>	NOV-30-2021	<b>Work Week</b>	WW48
<b>Last Time Ship (LTS)</b> <small>Of unchanged product</small>	N/A	<b>Affecting Lot No. / Serial No. (SN)</b>	N/A
<b>Sample Availability</b>	NOV-09-2021	<b>Qualification Report Availability</b>	N/A

**Supporting Documents for Change Validation/Attachments:**


- N/A

# PRODUCT / PROCESS CHANGE NOTIFICATION

## PCN-000757

Date: OCT-28-2021


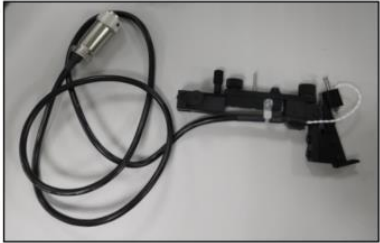
P2/4

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%;">                     Pedro Jr. Bernas                      Quality Assurance                      pbernas@semtech.com                      (289) 856-9326 x1162                 </div> <div style="width: 35%; text-align: center;">  </div> </div>
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: <a href="http://www.semtech.com/contact/index.html#support">http://www.semtech.com/contact/index.html#support</a>	

### Comparison of the current and alternative inking tool and ink tube

Current	Alternative
Pneumatic inking tool and ink tube 8103A5	Electronic inking tool and ink tube 6993

### Inking Tool

Type	Pneumatic inking tool	Electronic inking tool
Inking method	<ul style="list-style-type: none"> <li>➤ Use <b>air</b> to push ink out from the tube</li> <li>➤ Pneumatically adjusted the size of ink dot by the controller of inking tool</li> </ul>	<ul style="list-style-type: none"> <li>➤ Use <b>electronic</b> to push ink out from the tube</li> <li>➤ Pneumatically adjusted the size of ink dot by the <b>prober</b></li> <li>➤ The parameter is controlled by <b>prober</b>, it is better than inking controller</li> </ul>
Image		



## PRODUCT / PROCESS CHANGE NOTIFICATION

### PCN-000757

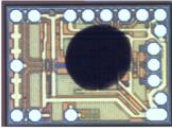
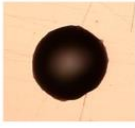
Date: OCT-28-2021

P3/4

#### Ink Tube

Type	Pneumatic inking tool	Electronic inking tool
Ink number	8103A5 (XANDEX)	6993 (XANDEX)
Ink type	Phenoxy with dye coloring agent	Phenoxy with dye coloring agent
Ink color	Black	Black
Characteristics	Premium ink with sodium and chloride levels certified less than 10 PPM. Opaque and highly resistant to most post-probe processes. Air dry or heat set. Acetone soluble prior to drying.	Premium ink - sodium and chloride levels certified less than 25 PPM. Requires heat curing. Alcohol/acetone soluble prior to cure
Shelf life	Four months	Four months
Image		

#### Ink Dot Size

Type	Pneumatic inking tool	Electronic inking tool
Ink number	8103A5 (XANDEX)	6993 (XANDEX)
Ink type	Phenoxy with dye coloring agent	Phenoxy with dye coloring agent
Image		
	0.449mm	0.466mm
	0.462mm	0.470mm

\* There is no significant difference.



# PRODUCT / PROCESS CHANGE NOTIFICATION

## PCN-000757

Date: OCT-28-2021

P4/4

### Ink Dot Thickness

Type	Pneumatic inking tool	Electronic inking tool
Ink number	8103A5 (XANDEX)	6993 (XANDEX)
Ink type	Phenoxy with dye coloring agent	Phenoxy with dye coloring agent
Thickness measurement data (unit : um)  Measurement by manually	29.8	30.9
	31.4	32.0
	30.3	31.4
	32.2	31.0
	31.6	32.3
	30.6	31.1

\* There is no significant difference.