



**TITLE: Product/Process Change Notice - Mold Compound Change for Certain Products in TOLLA Package**

**RELEASE DATE: 2023-12-14**

**OWNER DEPARTMENT: Product & Test**

**REVISION HISTORY**

(The original approval sheet is kept in DCC)

REVISION	RELEASE DATE	AUTHOR	DESCRIPTION OF CHANGES
A	2023-12-14	Qingqing Xiao	original

## PROCESS CHANGE NOTIFICATION

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**Mold Compound Change for Certain Products in  
TOLLA Package**

PCN #

CN-00476A

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Dear Valued Customer,

This Product Change Notification (PCN) contains advance information about changes we are planning to make to products that you have purchased within the last two years.

To improve productivity, Alpha & Omega Semiconductor will unify the mold compound for TOLLA package, products initially using KCC KTMC-5900GM will be switched to Sumitomo EME-G700HF. EME-G700HF is already a qualified mold compound and has been released in many TOLLA products. The affected products are listed in the appendix of the PCN. The form, fit, function, quality and reliability of our products will not be affected in any way with this change.

Please acknowledge receipt of this PCN within 30 days by signing in at <http://www.aosmd.com/quality/pcn> or sending the enclosed Acknowledgement Form to your local AOS Sales Representative.

Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

If you have any questions regarding this change notice, please contact your local AOS Sales Representative.

<http://www.aosmd.com/contact>

Sincerely,

CK OH

Senior Vice President of Quality

Alpha and Omega Semiconductor

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## Process Change Notification

<b>PRODUCT CATEGORY</b>  MOSFET	<b>PRODUCT(S) AFFECTED</b>  Please refer to the affected part list at the end of this PCN. * This PCN extends to all related products that may be released after this PCN.												
<b>TYPE OF CHANGE</b>  Mold compound change													
<b>DESCRIPTION OF CHANGE</b>  Change the mold compound supplier from KCC to Sumitomo. For details, please contact your local AOS sales representatives. <table border="1" data-bbox="145 824 1185 996"> <thead> <tr> <th colspan="2">Original</th> <th colspan="2">New</th> </tr> <tr> <th>Supplier</th> <th>Type</th> <th>Supplier</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>KCC</td> <td>KTMC-5900GM Halogen Free (Green compound)</td> <td>Sumitomo</td> <td>EME-G700HF Halogen Free (Green compound)</td> </tr> </tbody> </table>		Original		New		Supplier	Type	Supplier	Type	KCC	KTMC-5900GM Halogen Free (Green compound)	Sumitomo	EME-G700HF Halogen Free (Green compound)
Original		New											
Supplier	Type	Supplier	Type										
KCC	KTMC-5900GM Halogen Free (Green compound)	Sumitomo	EME-G700HF Halogen Free (Green compound)										
<b>REASON FOR CHANGE</b>  Improve productivity													
<b>SAMPLE AVAILABILITY</b> See appendix (To obtain samples or production devices, please contact your AOS Sales Representative).	<b>FIRST SHIP DATE</b> Estimated to be from Mar, 21 <sup>th</sup> , 2024, or earlier upon customer approval.												
<b>METHOD OF IDENTIFICATION</b>  Estimated to start from Date Code: '24F'. For details, please contact your local AOS sales representatives.													
<b>IMPACT OF CHANGE</b>  <b>Form:</b> None, <b>Fit:</b> None <b>Function:</b> None <b>Reliability:</b> None <b>Environment:</b> None													

**QUALIFICATION / RELIABILITY DATA:**

Reliability test			
Test Item	Condition	Time Point	Acc. / Sample Size
HTGB	Temp=175°C , Vgs=100% of Vgsmax	168/500/1000 hours	0/77 * 3 lot
HTRB	Temp=175°C , Vds=100% of Vdsmax	168/500/1000 hours	0/77 * 3 lot
Solder reflow precondition	168hr 85°C / 85%RH + 3 cycle reflow@260°C	-	0/77 * 12 lot
HAST	130°C , 85%RH, 33.3 psia, Vds=80% of Vdsmax up to 42V	96 hours	0/77 * 3 lot
Autoclave	121°C, 29.7psia, RH=100%	96 hours	0/77 * 3 lot
Temperature Cycle	-65°C to 150°C , air to air	250/500/1000 cycles	0/77 * 3 lot
IOL	$\Delta T_j = 100^\circ\text{C}$	15000 cycles	0/77 * 3 lot

**PCN RESPONSE:**

Please acknowledge receipt of this PCN within 30 days of delivery  
 Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.

**AOS CONTACTS:**

Please contact your local AOS Sales Representative  
<http://www.aosmd.com/contact/>

**Acknowledgement of Process Change Notification**

(Filled by the customer)

**Confirming the Receipt of the PCN**

PCN #:

Receiving date (YY/MM/DD):

Receiver:

Department / Title of the receiver:

Signature / Stamp:

**Customer Request**☐ Sample request

Quantity:

☐ Requirement of qualification data:**Approval of the Change**☐ Approve☐ Disapprove

Reason of disapproval:

Approver:

Department / Title of the approver:

Signature / stamp:

QRU-00022-02(e)

**Appendix: Affected Product List**

Part number	Estimated sample available date	Estimated completion date of qualification	Remark
AOTL66401	Contact Sales for sample schedule	Completed	
AOTL66451	Contact Sales for sample schedule	Completed	
AOTL66518	Contact Sales for sample schedule	Completed	
AOTL66608	Contact Sales for sample schedule	Completed	
AOTL66610	Contact Sales for sample schedule	Completed	
AOTL66912	Contact Sales for sample schedule	Completed	
AOTL66912_001	Contact Sales for sample schedule	Completed	
AOTL66918	Contact Sales for sample schedule	Completed	
AOTL66962	Contact Sales for sample schedule	Completed	