

**PRODUCT / PROCESS CHANGE NOTIFICATION**

**1. PCN basic data**

<b>1.1 Company</b>		STMicroelectronics International N.V
<b>1.2 PCN No.</b>	ADG/18/11272	
<b>1.3 Title of PCN</b>	MDmesh™ DM2 Power MOSFET Top Metal change from AISi to AlCu+Barrier - Ang Mo Kio (Singapore) - AUTOMOTIVE	
<b>1.4 Product Category</b>	Power MOSFET	
<b>1.5 Issue date</b>	2018-12-19	

**2. PCN Team**

<b>2.1 Contact supplier</b>	
<b>2.1.1 Name</b>	ROBERTSON HEATHER
<b>2.1.2 Phone</b>	+1 8475853058
<b>2.1.3 Email</b>	heather.robertson@st.com
<b>2.2 Change responsibility</b>	
<b>2.2.1 Product Manager</b>	Maurizio GIUDICE
<b>2.1.2 Marketing Manager</b>	Paolo PETRALI
<b>2.1.3 Quality Manager</b>	Vincenzo MILITANO

**3. Change**

<b>3.1 Category</b>	<b>3.2 Type of change</b>	<b>3.3 Manufacturing Location</b>
Wafer Fab (Process)	Metallization : change in metal layers type/nature, composition or final thickness	Ang Mo Kio (Singapore)

**4. Description of change**

	<b>Old</b>	<b>New</b>
<b>4.1 Description</b>	MDmesh™ DM2 Power MOSFET Transistors Top Metal composition is AISi	MDmesh™ DM2 Power MOSFET Transistors Top Metal composition will be AlCu+Ti/TiN barrier
<b>4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?</b>	no impact	

**5. Reason / motivation for change**

<b>5.1 Motivation</b>	Reliability Improvement
<b>5.2 Customer Benefit</b>	QUALITY IMPROVEMENT

**6. Marking of parts / traceability of change**

<b>6.1 Description</b>	by FG code and Q.A. number
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**7. Timing / schedule**

<b>7.1 Date of qualification results</b>	2018-12-13
<b>7.2 Intended start of delivery</b>	2019-06-16
<b>7.3 Qualification sample available?</b>	Upon Request

**8. Qualification / Validation**

<b>8.1 Description</b>	11272 Rel25-18.pdf		
<b>8.2 Qualification report and qualification results</b>	Available (see attachment)	<b>Issue Date</b>	2018-12-19

**9. Attachments (additional documentations)**

11272 Public product.pdf  
 11272 MDmesh&#8482; DM2 Power MOSFET Top Metal change from AISi to AICu+Barrier - Ang Mo Kio - AUT.pdf  
 11272 Rel25-18.pdf  
 11272 AICu + Barrier vs AISi.pdf

10. Affected parts		
10.1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	STB34N50DM2AG	
	STB37N60DM2AG	
	STB45N40DM2AG	
	STB45N50DM2AG	
	STB45N60DM2AG	
	STP45N40DM2AG	
	STP45N60DM2AG	
	STW37N60DM2AG	
	STW45N60DM2AG	
	STW50N65DM2AG	
	STW58N60DM2AG	
	STW58N65DM2AG	
	STW65N65DM2AG	
	STW72N60DM2AG	

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## Public Products List

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**PCN Title :** MDmesh™ DM2 Power MOSFET Top Metal change from AISi to AICu+Barrier - Ang Mo Kio (Singapore) - AUTOMOTIVE

**PCN Reference :** ADG/18/11272

**Subject :** Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

STW58N65DM2AG	STW58N60DM2AG	STP45N40DM2AG
STB45N50DM2AG	STW72N60DM2AG	STB45N60DM2AG
STB34N50DM2AG	STB37N60DM2AG	STW50N65DM2AG
STW65N65DM2AG	STB45N40DM2AG	STW45N60DM2AG
STW37N60DM2AG	STP45N60DM2AG	



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