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To Whom It May Concern

Premstaetten, April 24, 2018

Product Change Notification PCN09-2018 Filter Equipment Change for AS7000-AA

Dear Customer,

ams would like to inform you about an improvement in the supply chain security of the product AS7000-AA.

The optical filters for AS7000-AA are currently processed on a single equipment. This equipment is a single tool equipment and therefore we are going to switch this product to our standard filter tools from Q2/2018 onwards.

ams has currently 39 tools of this standard equipment installed and is running production in high volume on these machines. The single equipment will enter EOL by end of Q2/2018. We are convinced that this change will significantly increase the supply security.

The Filter material and product performance / data-sheet parameters will stay unchanged.

Affected Products:

AS7000-AA AS7000-AA1V4EC7 AS7000-AAM

Applied change:

	Current Filter Equipment	New Filter Equipment
Filter material	no change	no change
Filter deposition method	no change	no change
Filter layout See detailed explanation in Appendix 1	Full Die	TSV+PD only



Reason for change

- + Eliminate single equipment for filter processing.
- + Increase supply security.

Change Date

The change is effective by end of Q2/2018

Sample Availability

Samples are available on request.

Qualification

- Qualification of new Filter equipment / done
- Stress measurement on bare wafers after filter disposition and comparison between Current and New Filter Equipment / done
- 10 Lots Safe Launch / ongoing
 - o 100 % MRB
 - o Full data analysis & comparison of optical and electrical parameters
 - o FA Analysis of all open short fails
- FMEA / done

Risk Assessment

The risk is classified as very low based on following facts:

- Only change to new equipment with better uniformity and stability.
- No change of filter material.
- Identical optical performance.



Please be advised that unless we receive your written refusal concerning this PCN within 30 days, the PCN shall be deemed accepted

If you do have further questions, please do not hesitate to contact me.

Best Regards,

Reinhard Rogy

ams AG

Senior Manager Operations



APPENDIX 1: Description of Filter Layout Change

Equipment change for interference filter (IF) deposition Device AS7000 19204



- Deposition method and Filter material stays the same, just slight change of filter thickness
- IF deposition with new equipment induces more stress on the die → die area covered with IF needs to be reduced

Current IF layout:

IF covers the whole die

(IF above photodiode and TSV membranes)

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