

Product / Process Change Information

No. PCI-2022-054-01
EG-QR-221101-43

CUSTOMER NO. 0000112031
DATE 01-Nov.-2022
PAGE 1 / 2

Renesas Electronics Germany GmbH • Postfach 80 01 34 • 01101 Dresden

DIGI-KEY CORPORATION
701, Brooks Avenue South
56701 THIEF RIVER FALLS MN
USA

SUBJECT OF CHANGE / TITLE		Substitute of solvent for Polyimide layer																									
FAMILY / PRODUCTS AFFECTED		C7 / XH035																									
MANUFACTURING LOCATION / PRODUCTION LINE		XFAB Dresden C7 / XH035, wafer manufacturer, XFAB Kuching XH035, wafer manufacturer																									
LEVEL OF CHANGE	<input checked="" type="checkbox"/> Information only	<input type="checkbox"/> Customer Approval required																									
DESCRIPTION OF CHANGE																											
<p>Ingredients of the solvent used for the application of the polyimide are restricted by REACH 2018/588 and the solvent will be replaced by a different one.</p> <p>The spin process of polyimide and solvent will run on the same equipment in the same line. Process parameter are optimized to assure Polyimide layer of same characteristic.</p> <p>As the auxiliary solvent evaporate completely, Renesas judged this change as minor.</p> <p>Based on the below shown 4M+E assessment Renesas conclude this change as low risk</p> <table border="1"> <thead> <tr> <th></th> <th>Item</th> <th>Note</th> <th>Judge</th> </tr> </thead> <tbody> <tr> <td>Man</td> <td>Operator</td> <td>No change; same location is used</td> <td>Low risk</td> </tr> <tr> <td>Machine</td> <td>Coater / Developer</td> <td>No change; same equipment is used</td> <td>Low risk</td> </tr> <tr> <td>Material</td> <td>Polyimide</td> <td>Base material is the same; solvent is to be changed for environmental reason, will not remain in the final material</td> <td>Low risk</td> </tr> <tr> <td>Method</td> <td>Process Management</td> <td>No change in the process flow , quality gates and specification</td> <td>Low risk</td> </tr> <tr> <td>Environment</td> <td>clean degree</td> <td>No change; same cleanroom, handling, storage</td> <td>Low risk</td> </tr> </tbody> </table> <p>The product itself remains unchanged in form, fit and function.</p>					Item	Note	Judge	Man	Operator	No change; same location is used	Low risk	Machine	Coater / Developer	No change; same equipment is used	Low risk	Material	Polyimide	Base material is the same; solvent is to be changed for environmental reason, will not remain in the final material	Low risk	Method	Process Management	No change in the process flow , quality gates and specification	Low risk	Environment	clean degree	No change; same cleanroom, handling, storage	Low risk
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RISK ASSESSMENT	Impact to form <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Impact to fit <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Impact to function <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO																								

Template No. FT-081 Version 017

Renesas Electronics Germany GmbH

Managing Director: Carsten Jauch
Registered Office: Grenzstrasse 28, 01109 Dresden, Germany. Postal Address: Postfach 80 01 34, 01101 Dresden, Germany
Registered Court: Local Court Dresden HRB 35678. Value Added Tax Identification No.: DE151798300. Tax-ID-No.: 202/117/07950
Account Relationship: Bank of America (for EUR payments): BIC: BOFADEFXXX, IBAN: DE62 5001 0900 0020 7250 23
Bank of America (for USD payments): BIC: BOFADEFXXX, IBAN: DE84 5001 0900 0020 7250 15
E-mail: Info-Germany@lm.renesas.com, Internet: www.renesas.com

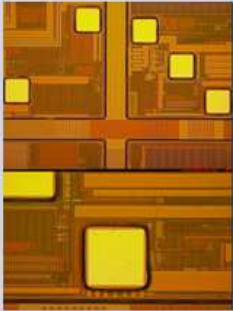
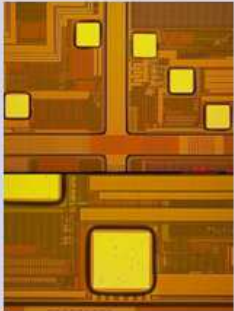
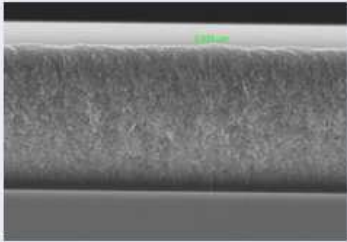
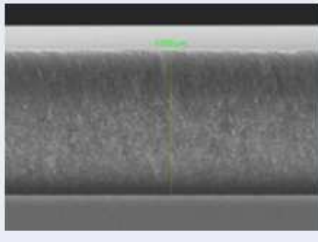
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DOCUMENTATION (EVALUATION TEST DATA)

Final product results had been performed on generic product base and passed all criteria.

Criteria	Before Change	After Change	Judgement
Bondpad opening			Same
Layer integrity post cure			Same

EXPECTED LAST ORDER DATE
UNCHANGED MATERIAL

to be submitted.

EXPECTED LAST SHIPMENT DATE
UNCHANGED MATERIAL

to be submitted.

EXPECTED FIRST SHIPMENT DATE
CHANGED MATERIAL

to be submitted.

DIFFERENTIATOR OF CHANGED DEVICES

Lot number

PART NUMBER CHANGE

Affected Ordering Code

Customer Material No

Ordering Code
Change?

New Ordering Code

ASI4UE-F-G1-ST

ASI4UE-G1-SR

ZMID5202AE1R

ZMID5203AE1R

ZSC31014EAG1-R

ZSC31050FAG1-R

ZSC31050FAG1-T

ZSC31050FIG1-R

ZSSC3123AA1B

YES

NO

ISSUED BY

Klaus Hammer / EQAC

Name, Department

sign. K. Hammer

Signature

01-Nov.-2022

Date

This document is an attachment to/Dieses Dokument ist eine Anlage zu [PR-035 Product and Process Changes \(Änderungen von Produkten und Prozessen\)](#).

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