



Initial Product/Process Change Notification

Document #: IPCN24723X

Issue Date: 30 Jun 2022

Title of Change:	Qualify additional die attach epoxy for dual source.	
Proposed First Ship date:	06 Nov 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Mike.Webster@onsemi.com	
PCN Samples Contact:	<p>Contact your local onsemi Sales Office.</p> <p>Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change.</p> <p>Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.</p>	
Type of Notification:	<p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com></p>	
Marking of Parts/ Traceability of Change:	Date Code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	ASEM, Malaysia	
	Kingpak, Taiwan	
Description and Purpose:		
<p>onsemi is advising customers of an alternate die attach epoxy. In today's uncertain supply climate, onsemi considers this to be a proactive step to ensure continuity of supply.</p> <p>The increase in COVID related issues and other supply disruptions has the potential to affect supply stability.</p>		
	Before	After
Assembly, Die attach paste	Henkel 2053S	Henkel 2053S & Henkel 2025
There is no product marking change as a result of this change.		



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Qualification Plan:

Qual Vehicle: AR0136AT3B00XUEA0-TL-TPBR

Qual Package: 9mmx9mm iBGA

Test	Specification	Condition	Interval
HTOL	JESD22-A108	Ta = <u>105</u> °C, 100 % max rated Vcc, 1008hrs	1008hr
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	
HTSL	JESD22-A103	Ta= <u>150</u> °C, 504hr	504hr
TC	JESD22-A104	Ta= <u>-55</u> °C to <u>+125</u> °C, 1000cyc	1000cyc
HAST	JESD22-A110	110°C, 85% RH, with bias, 264hrs Or 130°C, 85% RH, with bias, 96hrs	264hr
uHAST	JESD22-A118	110°C, 85% RH, unbiased, 264hrs Or 130°C, 85% RH, unbiased, 96hrs	264hr
WBS	AEC Q100-001 AEC Q003	CPK >1.67	
WBP	MIL-STD883 Method 2011 AEC Q003	CPK >1.67 or 0 Fails after TC (test #A4)	
ED	AEC Q100-009 AEC Q003	Elect. Distribution: (Test @ C/ R/ H)	

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
AR0135CS2M00SUEA0-DPBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M00SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M00SUEA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0141CS2M00SUEA0-DPBR	AR0135CS2C00SUEA0-DPBR
AR0141CS2M00SUEA0-TPBR	AR0135CS2C00SUEA0-DPBR
AR0221SR2C00SUEA0-DPBR	AR0135CS2C00SUEA0-DPBR
AR0130CSSC00SPCA0-DPBR	AR0135CS2C00SUEA0-DPBR
MT9P031I12STM-TP	AR0135CS2C00SUEA0-DPBR
MT9P031I12STM-DR1	AR0135CS2C00SUEA0-DPBR
MT9P031I12STM-DR	AR0135CS2C00SUEA0-DPBR
MT9P031I12STM-DP1	AR0135CS2C00SUEA0-DPBR
MT9P031I12STM-DP	AR0135CS2C00SUEA0-DPBR



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MT9P031I12STC-TP	AR0135CS2C00SUEA0-DPBR
MT9P031I12STC-DR	AR0135CS2C00SUEA0-DPBR
MT9P031I12STC-DP	AR0135CS2C00SUEA0-DPBR
MT9P006I12STCU-DR1	AR0135CS2C00SUEA0-DPBR
MT9P006I12STCU-DR	AR0135CS2C00SUEA0-DPBR
MT9P006I12STCU-DP1	AR0135CS2C00SUEA0-DPBR
MT9P006I12STCU-DP	AR0135CS2C00SUEA0-DPBR
MT9P001I12STC-B-DR	AR0135CS2C00SUEA0-DPBR
MT9P001I12-N4005-DR	AR0135CS2C00SUEA0-DPBR
ASX350CS3C00SPEA0-DR	AR0135CS2C00SUEA0-DPBR
AR0230CSSC12SUEA0-DR1	AR0135CS2C00SUEA0-DPBR
AR0230CSSC12SUEA0-DR	AR0135CS2C00SUEA0-DPBR
AR0230CSSC00SUEA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0230CSSC00SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0230CSSC00SUEA0-DPBR2	AR0135CS2C00SUEA0-DPBR
AR0221SR2C00SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0221SR2C00SUEA0-DPBR1	AR0135CS2C00SUEA0-DPBR
AR0141CSSM21SUEA0-TPBR	AR0135CS2C00SUEA0-DPBR
AR0141CS2C00SUEA0-DR	AR0135CS2C00SUEA0-DPBR
AR0140CS2C00SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M25SUEA0-TPBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M25SUEA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2M25SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M25SUEA0-DPBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2M25SUEA0-DPBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M00SUEA0-TPBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2M00SUEA0-DPBR2	AR0135CS2C00SUEA0-DPBR
AR0135CS2M00SUEA0-DPBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2C19SUEA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2C19SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2C19SUEA0-DPBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2C00SUEA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0135CS2C00SUEA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0135CS2C00SUEA0-DPBR1	AR0135CS2C00SUEA0-DPBR



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AR0135CS2C00SUEA0-DPBR	AR0135CS2C00SUEA0-DPBR
AR0130CSSM00SPCA0-DRBR2	AR0135CS2C00SUEA0-DPBR
AR0130CSSM00SPCA0-DRBR1	AR0135CS2C00SUEA0-DPBR
AR0130CSSM00SPCA0-DRBR	AR0135CS2C00SUEA0-DPBR
AR0130CSSM00SPCA0-DPBR1	AR0135CS2C00SUEA0-DPBR
AR0130CSSM00SPCA0-DPBR	AR0135CS2C00SUEA0-DPBR