



Initial Product/Process Change Notification

Document #: IPCN25057Z

Issue Date: 29 Sept 2023

Title of Change:	Qualify 2nd source glass supplier and epoxy at ASEM	
Proposed Changed Material First Ship Date:	01 Oct 2024 or earlier if approved by customer	
Current Material Last Order Date:	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>	
Current Material Last Delivery Date:	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>	
Product Category:	Active components – Integrated circuits	
Contact information:	Contact your local onsemi Sales Office or Mike.Webster@onsemi.com	
PCN Samples Contact:	Contact your local onsemi Sales Office to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or Mike.Webster@onsemi.com	
Type of Notification:	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 6 months prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >.	
Change Category		
Category	Type of Change	
Process - Assembly	Change of direct material supplier	
Description and Purpose:		
ASEM is one of onsemi's Assembly subcons. Currently, they have a single supplier of cover glass.		
Purpose of change is to qualify 2 nd source supplier to prevent shortage of material.		
The 2 nd source supplier uses the same base glass material Schott D263T eco.		
Assembly – Glass Supplier	From	To
	Crystal-Optech(CO) BBAR & Pure glass (Base glass material Schott D263T eco)	Crystal-Optech(CO) BBAR & Pure glass (Base glass material Schott D263T eco) & PTOT BBAR & Pure glass (Base glass material Schott D263T eco) as 2 nd source
There is no product marking change as a result of this change.		



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Reason / Motivation for Change:	Source/Supply/Capacity Changes Process/Materials Change		
Anticipated impact on fit, form, function, reliability, product safety or manufacturability:	The device will be qualified and validated based on the same Product Specification. No anticipated impacts.		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
None		ASEM, Malaysia	
Marking of Parts/ Traceability of Change:	Date Code		
Reliability Data Summary:			
QV DEVICE NAME: AR0132AT, AR0140AT, AR0144AT, ASX344AT, AR0143AT, AR0147AT, AS0140AT, AS0148AT			
PACKAGE: iBGA, iEBGA			
Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150 °C	504 hrs
PC	J-STD-020 JESD-A113	MSL 3 @ 260 °C	
TC	JESD22-A104	Ta= -55°C to +125°C	1000 cyc
uHAST	JESD22-A118	uHAST-A: 130°C/85% RH, unbiased 96hrs or uHAST-B: 110°C/85% RH, unbiased 264hrs	96 hrs uHAST-A or 264hrs uHAST-B
WBS	AEC Q100-001	Wire Bond Shear: Cpk > 1.67	
WBP	Mil-Std-883 Meth 2011	Wire Bond Pull: Cpk > 1.67	
CHAR	AEC Q003	Characterization	
Electrical Characteristics Summary:			
Electrical distribution data will be supplied with final qual results.			
List of Affected Parts:			
<i>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.</i>			
Current Part Number	New Part Number	Qualification Vehicle	
AR0132AT6C00XPEA0-TPBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6C00XPEA0-TRBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6G00XPEA0-AA-DRBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6M00XPEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6R00XPEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6R00XPEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6R00XPEA0-TB-TPBR	NA	AR0132AT6C00XPEA0-DPBR	
AR0132AT6R00XPEA0-TPBR	NA	AR0132AT6C00XPEA0-DPBR	



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AR0132AT6R00XPEA0-TRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M00XUEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M00XUEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M00XUEA0-TPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M25XUEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR
ASX350AT3C00XPEA0-DR	NA	ASX340AT2C00XPED0-DRBR
ASX344ATSC00XUEA0-TRBR	NA	ASX340AT2C00XPED0-DRBR
ASX344ATSC00XUEA0-DRBR	NA	ASX340AT2C00XPED0-DRBR
ASX344ATSC00XUEA0-DPBR	NA	ASX340AT2C00XPED0-DRBR
ASX342ATSC00XPED0-DR	NA	ASX340AT2C00XPED0-DRBR
ASX342ATSC00XPED0-DP	NA	ASX340AT2C00XPED0-DRBR
ASX340AT3C00XPED0-TPBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT3C00XPED0-DRBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT3C00XPED0-DPBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT2C00XPED0-TRBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT2C00XPED0-TPBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT2C00XPED0-DRBR	NA	ASX340AT2C00XPED0-DRBR
ASX340AT2C00XPED0-DPBR	NA	ASX340AT2C00XPED0-DRBR
AS0149ATSC00XUEA0-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA1-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA1-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA2-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0140AT3C00XUEA0-VL-TPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0140AT3C00XUEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0140AT3C00XUEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0140AT2C00XUEA0-TRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0140AT2C00XUEA0-MG-TRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0140AT2C00XUEA0-CL-TRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0136AT3C00XUEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0136AT3C00XUEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M25XUEA0-TRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M25XUEA0-TPBR	NA	AR0132AT6C00XPEA0-DPBR
AR0135AT2M25XUEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0132AT6C00XPEA0-DRBR	NA	AR0132AT6C00XPEA0-DPBR
AR0132AT6C00XPEA0-DPBR	NA	AR0132AT6C00XPEA0-DPBR



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AR0147ATSC00XUEA5-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEA5-P1-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG5-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG4-DRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147AT2C00XUEG4-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG5-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEA5-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEA5-DRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG5-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG5-DRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEA5-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG4-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG4-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AR0147ATSC00XUEG4-DPBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA2-DRBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA2-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA2-TRBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA1-TPBR	NA	AR0147ATSC00XUEG5-DRBR
AS0149ATSC00XUEA1-DRBR	NA	AR0147ATSC00XUEG5-DRBR