



**Alliance Memory, Inc.**

12815 NE 124<sup>th</sup> St STE#D,

Kirkland, WA 98034

Tel: +1 (425) 898-4456

[www.alliancememory.com](http://www.alliancememory.com)

## Product Change Notice #20201005

PCN Issue Date: 05/October/2020	Effective Date: 01/January/2021
Subject: Change in package assembly lead-frame type from LOC to Non-LOC type	
PCN Type: <input type="checkbox"/> Discontinuation <input type="checkbox"/> Foundry <input checked="" type="checkbox"/> Assembly <input type="checkbox"/> Test <input type="checkbox"/> Datasheet <input type="checkbox"/> Other	
Description of Changes	Change in TSOP package lead-frame type from Lead-On-Chip (LOC) to conventional Non-LOC (Chip on Lead) type package assembly
Reason for Change	The Vendor for LOC type, Innox has planned to stop the production of LOC type material. In order to continue support our valuable customer, Alliance Memory has qualified conventional non-LOC type.
Traceability Guidelines	Materials Starting from Date Code YYWW 2101 (Year 2021, Work Week 01) will be from new lead frame type
Reliability & Quality	There is no change to Package-Outer-Dimensions, Functional-Behaviour, Electrical-Performance, Quality and Reliability of product.

### Affected Products

PART Number	PART Description
AS4C32M16D1A-5TCN/TIN/TAN - TR	512Mb (32Mx16), DDR1 SDRAM, 200Mhz, 66pin TSOP II, Commercial/Industrial/Automotive Grade
AS4C64M8D1-5TCN/TIN - TR	512Mb (64Mx8), DDR1 SDRAM, 200Mhz, 66pin TSOP II, Commercial/Industrial Grade

TR = This applies to Tape and reel part numbers too



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Dear Valued Customer:

This PCN is to notify a change in package lead frame type from LOC type to Non-LOC type as lead frame supplier announced supply discontinuation of LOC type materials. To ensure supply continuity and minimal disruption to supply chain, Alliance Memory Inc had qualified the change to ensure no change in Form-Fit-Function of the affected part numbers by performing all due diligence standard qualifications. This Change shall be effective from 01 January 2021 - Year-Year-Work-Week (YYWW) 2101

This is to assure that there is no impact to Package Outline Dimensions, Functional/Electrical Performance, Packaging Process and Controls. There is no change in Form, Fit, Function, Quality & Reliability of the product. Production and Supply shall continue without any disruptions.

Please contact your local Alliance Memory representative if you have questions regarding this information.

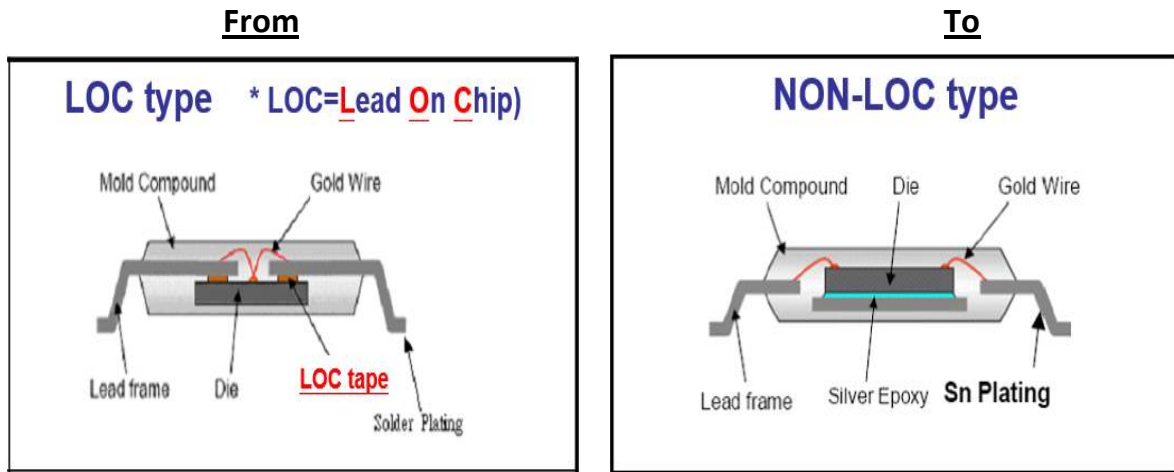
Your sincerely,



David Bagby  
President  
Alliance Memory Inc.



**Appendix1:** Description of Change



**Appendix2:** Product Qualification Summary

Test	Reference	Condition	Stress Duration	Sample Size	No. of Failure	Results
Pre-Con	JESD22-A113	Level III		228ea	0/228	Pass
TCT	JESD22-A104	-65°C ~ 150°C	500 Cycles	76ea	0/76	Pass
HTST	JESD22-A103	150°C	1000hrs	76ea	0/76	Pass
HAST	JESD22-A110	130C,85%RH, VMax	96Hrs	76ea	0/76	Pass
PCT	JESD22-A102	121°C, 100% RH	168hrs	76ea	0/76	Pass
ESD-CDM	JESD22-C101	Non-Socket mode	≥+/-1KV	3ea	0/3	Pass
ESD-HBM	JESD22-A114	R=1.5K, C=100pf	≥+/-2KV	3ea	0/3	Pass

Note:

The new material complies to requirements of Restrictions of Hazardous Substances (ROHS) DIRECTIVE 2011/65/EU and 2015/863/EU without exemptions.

