

1. Information Note Basic Data		
1.1 Company		Allegro MicroSystems 955 Perimeter Rd, Manchester, New Hampshire 03103 U.S.A.
1.2 Information Note No.	1232023	
1.3 Title of IN	LA pkg transition to R970X tape and 97 um bump height	
1.4 Customer		
1.5 Issue Date	24-Jan-23	

2. Contact		
2.1 Contact Supplier		
2.1.1 Name	Heather Brogna	
2.1.2 Phone	603-626-2300	
2.1.3 Email	hbrogna@allegromicro.com	
2.2 Team Supplier (optional)		
2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)

3. Description		
	Current	New
Description #1	Changing LA pkg transtion from R740	Transition to new R970X with the 97 um bump hight.
Description #2	40 um tape thickness	54um tape thickness
Description #3	80um ball height, 129 um bump diameter	97um ball height, 146um bump diameter
Description #4	Leadframe number 2816D	leadframe number 2816Q
Description #5		
Description #6		
Description #7		
Description #8		
Description #9		
Description #10		

4. Reason / Motivation	
4.1 Motivation	Tape supplier Tomoegawa has discontinued the production of the R740 tape. Tomoegawa's recommended replacement is the R970X tape.
4.2 Additional Explanation (optional)	The R970X tape is 14um thicker than the R740 (54um vs 40um), with demonstrated improvement in the isolation capability. The solder bump height is increased to accommodate the thicker tape. Sensitivity of the device was not affected by this tape and bump height change. Comparison of Partial Discharge show great improvements achieved with the new tape.

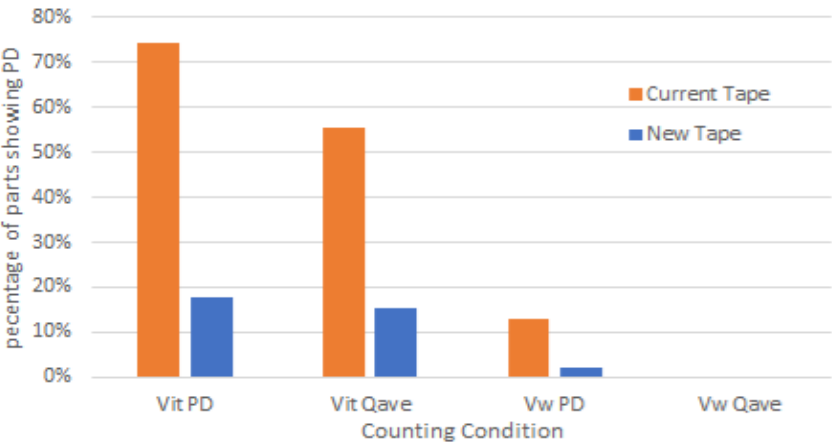
5. Marking of Parts / Traceability	
5.1 Description	LA pkg transition to R970X tape and 97um bump height

6. Timing / Schedule		
6.1 Intended Start of Delivery	25-Mar-2023	Target date is base on assessment of current R740 leadframes availability

7. Attachments (e.g. additional documentation, pictures, part list....)	
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Production PD Test Showing PD
ACS733LA Tape Variants



Counting Condition	Current Tape (%)	New Tape (%)
Vit PD	75	18
Vit Qave	55	15
Vw PD	12	2
Vw Qave	0	0

Where for PD lower is better

8. Affected Parts									
8.1 Current						8.2 New (if applicable)			
8.1.1 Customer Part No.	8.1.2 Supplier Catalog Part No.	8.1.3 Supplier Internal Part No. (optional)	8.1.4 Package Name	8.1.5 Part Description (optional)	8.1.6 Additional Part Information (optional)	8.2.2 Supplier Catalog Part No.	8.1.3 Supplier Internal Part No. (optional)	8.2.4 Package Name	8.2.6 Additional Part Information (optional)
	ACS37002LLAATR-015B3								
	ACS37002LLAATR-015B5								
	ACS37002LLAATR-025B5								
	ACS37002LLAATR-025U3								
	ACS37035LLAATR-065B5								
	ACS710KLATR-10BB-NL-T								
	ACS710KLATR-10BB-T								
	ACS710KLATR-12CB-NL-T								
	ACS710KLATR-12CB-T								
	ACS710KLATR-25CB-NL-T								
	ACS710KLATR-25CB-T								
	ACS710KLATR-6BB-NL-T								
	ACS710KLATR-6BB-T								
	ACS716KLATR-12CB-NL-T								
	ACS716KLATR-12CB-T								
	ACS716KLATR-25CB-NL-T								
	ACS716KLATR-25CB-T								
	ACS716KLATR-6BB-NL-T								
	ACS716KLATR-6BB-T								
	ACS716KLATR-9BB-NL-T								
	ACS720KLATR-13AB-T								
	ACS720KLATR-15AB-T								
	ACS720KLATR-15AB-T-4								
	ACS720KLATR-28AB-T								
	ACS720KLATR-35AB-T								
	ACS720KLATR-35AB-T-4								
	ACS720KLATR-56AB-T								
	ACS720KLATR-65AB-T								
	ACS720KLATR-65AB-T-4								
	ACS720KLATR-80AB-T								
	ACS720KLATR-90AB-T								
	ACS732KLATR-20AB-T								
	ACS732KLATR-20AB-T								
	ACS732KLATR-40AB-T								
	ACS732KLATR-40AB-T								

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	ACS732KLATR-40AB-T								
	ACS732KLATR-65AB-T								
	ACS732KLATR-65AB-T								
	ACS732KLATR-65AU-T								
	ACS732KLATR-75AB-T								
	ACS732KLATR-75AB-T								
	ACS733KLATR-20AB-T								
	ACS733KLATR-20AB-T-H								
	ACS733KLATR-40AB-T								
	ACS733KLATR-40AB-T								
	ACS733KLATR-40AU-T								
	ACS733KLATR-50AU-T								
	ACS733KLATR-65AB-T								

Form adopted from ZVEI Revision 4.0

Please note: It is our intention to inform our customer of changes as early as possible. Under Allegro’s procedure for product/process change notification, Allegro strives, based on its technical judgment, to provide notification of significant changes that may affect form, fit, function, reliability/durability and processability/manufacturability. However, as Allegro cannot ensure evaluation of product/process changes for each and every application, the customer retains responsibility to validate the impact of a change on its application suitability. If samples are needed for validation of a change, requests may be made via the contact information provided herein. Please contact your Account Manager or Local Sales Representative for any questions.