



Standardized Information for Process/Product Change Notification (PCN)

1. PCN Basic Data		
1.1 Company		Allegro MicroSystems 955 Perimeter Rd, Manchester, New Hampshire 03103
1.2 PCN No.	PbFreeCS	
1.3 Title of PCN	Lead (Pb) Free Conversion - Solder Bumps	
1.4 Customer	AVNET EUROPE	
1.5 Product Category	Active Components – Integrated Circuits	
1.6 Issue Date	19-Jul-2021	
1.7 PCN Revision History (optional)	1.8 Issue Date of Previous Revision (optional)	1.9 Delta to Previous Revision (optional)
NA		

2. PCN Team		
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. Changes			
No.	3.0 Identification	3.1 Category	3.2 Type of Change
#1	SEM-PA-06	PROCESS - ASSEMBLY	Bump Material / Metall System
#2	SEM-PA-14	PROCESS - ASSEMBLY	Change in process technology (e.g. sawing, die attach, bond wire, and form, lead frame preparation)
#3	SEM-PA-15	PROCESS - ASSEMBLY	Process integrity: tuning with
#4			
#5			
#6			
#7			

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#8			
#9			
#10			

4. Description of Change		
	Current	New
Change #1	Current parts utilize leaded (SnPb) solder bumps	New solder bumps will be ma
Change #2	Current parts do not include Epoxy Dotting	Epoxy dotting added to the a
Change #3	Currently no Epoxy Dots	Adding Epoxy Dots to control improving the high voltage is
Change #4		
Change #5		
Change #6		
Change #7		
Change #8		
Change #9		
Change #10		
4.6 Anticipated Impact on Form, Fit, Function, Reliability or Processability?	No anticipated impact to fit, form or function but datasheet specification limits are in device performance.	
4.7 Reference Parts with Customer Number (optional)		


5. Reason / Motivation for Change	
5.1 Motivation	The European Union (EU) has released Directive 2002/95/EC (RoHS) and requires parts with solder bumps to be lead (Pb) free (previously 7a exen
5.2 Additional Explanation (optional)	

6. Marking of Parts / Traceability of Change	
6.1 Description	Top brand moves from ACS723T to ACS723S to signify the SnAg version.

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7. Timing / Schedule			
7.1 Date of Qualification Results			
7.2 Last Order Date (optional)			
7.3 Last Delivery Date (optional)			
7.4 Intended Start of Delivery		2021.11.01	
7.5 Qualification Samples Available?	Yes		
	Date Available	Now	
7.6 Customer Feedback Required Until			
8. Qualification / Validation			
8.1 Description (e.g. qual. plan/report, AEC-Q...)	Qual Data, Q-100		
8.2 Qualification Report and Qualification Results		Issue Date	
9. Input to Customer for Risk Assessment Process			
Under Allegro's procedure for product/process change notification, Allegro strives, based on its technical judgment, to provide notification that may affect form, fit, function, reliability/durability and processability/manufacturability. However, as Allegro cannot ensure evaluation of product in each and every application; the customer retains responsibility to validate the impact of a change on its application suitability.			
10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)			

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1.3 Title of PCN	Lead (Pb) Free Conversion - Solder Bumps						
11. Affected Parts							
11.1 Current						11.2 New (if applicable)	
11.1.1 Customer Part No.	11.1.2 Supplier Catalog Part No.	11.1.3 Supplier Internal Part No. (optional)	11.1.4 Package Name	11.1.5 Part Description (optional)	11.1.6 Additional Part Information (optional)	11.2.2 Supplier Catalog Part No.	11.2.3 Supplier Internal Part No. (optional)
ACS723LLCTR-40AB-T	ACS723LLCTR-40AB-T						
ACS723LLCTR-20AU-T	ACS723LLCTR-20AU-T						
ACS723LLCTR-05AB-T	ACS723LLCTR-05AB-T						
ACS723LLCTR-10AU-T	ACS723LLCTR-10AU-T						
ACS723LLCTR-20AB-T	ACS723LLCTR-20AB-T						
ACS723LLCTR-10AB-T	ACS723LLCTR-10AB-T						

Form adopted from Allegro Internal Document

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, we strive, based on our technical judgment, to provide notification of significant changes that may affect form, fit, function, reliability/durability, performance, processability/manufacturability. However, as Allegro cannot ensure evaluation of product/process changes for each and every application, the customer bears the 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 through the change information provided herein. Please contact your Account Manager or Local Sales Representative for any questions. We kindly request you meet our target date for implementation. Unless both parties agree to extend the implementation date, this change will be implemented as scheduled.

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03 U.S.A.

w
de from silver (SnAg)
sssembly process
bump height specs and olation performance
creasing to reflect actual

2011/65/EU (RoHS II) which apt).

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of significant changes that product/process changes for	
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03 U.S.A.	
applicable)	
11.2.4 Package Name	11.2.6 Additional Part Information (optional)

noted from ZVEI Revision 3.0.0

*In the event of a notification, Allegro
and
the customer retains
be made via the contact
consideration so we can
scheduled.*