



PCN Number: 1604-3 Chgnot.doc rev. __ 4/16

Product/Process Change Notification (PCN)			
Customer: DIGI-KEY CORPORATION	Da	te: 04 October 2016	
Customer Part # affected: A1126LUA-T			
Originator: Stylianos Kalakonas	Phone: 603-626-2484	Fax: 603-641-5336	
Duration of Change:	Permanent X	Temporary (explain)	
Summary description of change: Part Ch	nange: X Process Cha	ange: X Other:	

1. Package:

Allegro is discontinuing its legacy UA 3-pin single inline package (SIP) as we invest in our next generation UA SIP featuring advancements in assembly technology, a matrix high density (HD) leadframe, and state of the art mold compound. Please take note of the minor dimensional and material changes.

What is the part or process changing from?

1. Package:

Allegro's legacy UA package. Please reference DWG-0949.

Mold Compound: MG35F

Package lead length: 15.75 +/- 0.51 mm

Lead Finish: Trim after tin plate Dam bar from package: 2.16 mm Mold gate top of the package: None

No Draft Angle from Top Mold to back of package





What is the part or process changing to?

1. 1	Pack	age
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Allegro's Matrix HD UA package. Please reference DWG-9067.

Mold Compound: G700-LS, Rohs compliant low stress, green mold compound Package lead length: 14.99 + -0.25 mm

Lead Finish: Trim before Tin plate resulting in plating of the dambar with no exposed Cu Dam bar from package: 1.02 mm

Mold gate top of the package: The redesigned with mold "pull-backs" in the gate and tie bar areas prevent mold flashing and burrs from protruding beyond the gate and tie bars. The 10° Draft Angle from Top Mold to back of package improves ejection from the mold.

Other minor changes in the flow and BOM internal to the package will be provided in the PPAP.

There is no impact to function for these part changes.

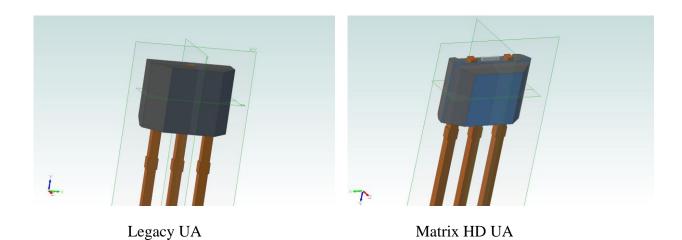
Note: Validation of equivalence within a specific application is at the discretion of the Customer.

Is a PPAP update required?	Yes X	No
Reliability testing required? (See attached qual results)	Yes X	No (explain)



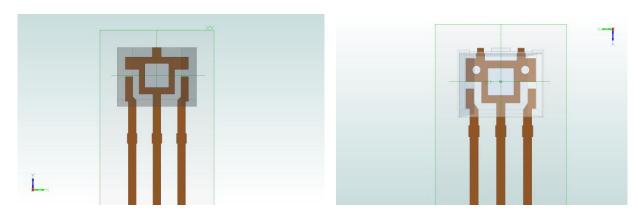


Legacy UA vs Matrix HD UA - Visual Differences



• Top of package on the Matrix HD UA has tie and dam bar protrusions

Legacy UA vs Matrix HD UA – Leadframe Differences



Legacy UA leadframe

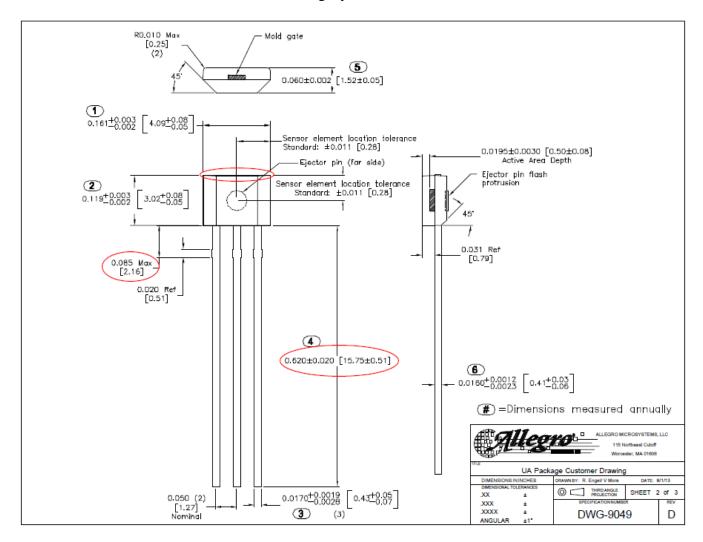
Matrix HD UA leadframe





Legacy UA vs Matrix HD UA - Dimensional Comparison

Legacy UA

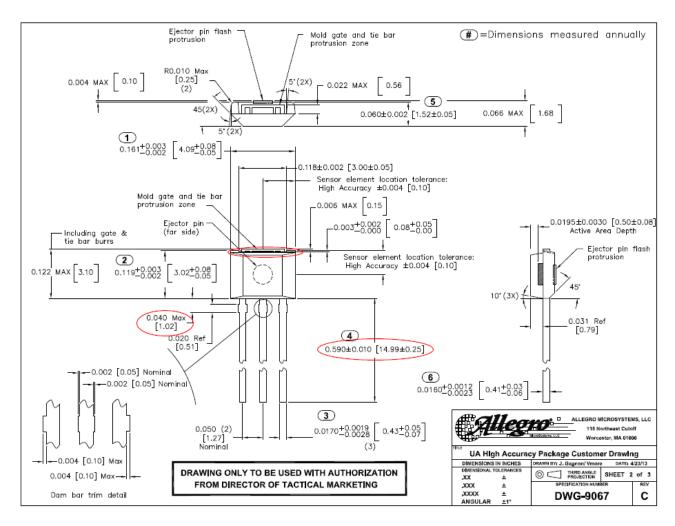






Legacy UA vs Matrix HD UA - Dimensional Comparison Continued

Matrix HD UA



Package	Width (mm)	Height (including tie & gate bar protrusions) (mm)	Lead Length (mm)	Leadframe Mold Offset (mm)
Legacy UA	4.09 (+0.08, -0.05)	3.02 (+0.08, -0.05)	15.75 +/-0.51	+/-0.101
Matrix HD UA	4.09 (+0.08, -0.05)	3.02 (+0.08, -0.05)	14.99 +/-0.25	+/-0.051





Expected completion date for internal qualification: December 2016

Expected PPAP availability date: Jan. 2017

Estir	nated date	(Three weeks upon request) e of first shipment: April 2017		
Expected sample availability date: Available				
C	Yes	Date Required: or earlier		
Customer Approval:	No X	Notification Only		
In the event the customer cannot approve the change Allegro will support Non-Cancellable Non-Returnable Last Time Buy (LTB) orders for the existing solution. LTB purchase orders must have requested delivery no later than 12 months from date below with a quantity that cannot exceed one year of demand unless there is a separate agreement with Allegro.				
Final Da	te to place	e LTB orders: August 2017		
Allegro's procedure for product/pr judgment, to provide notification function. However, as Allegro can every application; the customer re- application suitability. If samples an contact information provided herein any questions. We would kindly	ocess char on of sign nnot ensur etains resp re needed f n. Please c request yo	ur customer of changes as early as possible. Under age notification, Allegro strives, based on its technical nificant changes that may affect form, fit on the evaluation of product/process changes for each and consibility to validate the impact of a change on its for validation of a change, requests may be made via the contact your Account Manager or local Sales contact for our consideration so we can meet our target date for the open contact the implementation date, this change will be		
Customer comments/Conditions of	Acceptance	ee:		
Approved by:	Date:	Title:		

cc: Allegro Sales/Marketing/Quality