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**PCN# : P542AAB**  
**Issue Date : Nov. 18, 2016**

**DESIGN/PROCESS CHANGE NOTIFICATION**

This is to inform you that a change is being made to the products listed below.

Unless otherwise indicated in the details of this notification, the identified change will have no impact on product quality, reliability, electrical, visual or mechanical performance and affected products will remain fully compliant to all published specifications. Products incorporating this change may be shipped interchangeably with existing unchanged products.

This change is planned to take effect in 90 calendar days from the date of this notification. Please work with your local ON Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples.

**Implementation of change:**

Expected First Shipment Date for Changed Product :Feb. 16, 2017

Expected First Date Code of Changed Product :1708

Description of Change (From) :  
TF220\_4L PC products use 1.5mil Gold wire bonding.

Description of Change (To) :  
Add alternative 1.5mil Copper wire bonding for TF220\_4L products.

**Reason for Change:**

This change is only to the bond wire material used for selected products for lower resistance and better thermal performance. There are no changes to the currently approved assembly facilities or any other materials used to manufacture these products.

**Affected Product(s):**

KA1H0165RTU	KA1M0565RTU	KA1M0565RYDTU
KA5H0165RTU	KA5H0165RYDTU	KA5H0365RTU
KA5H0380RTU	KA5H0380RYDTU	KA5L0380RYDTU
KA5L0565RYDTU	KA5M0265RYDTU	KA5M0280RYDTU
KA5M0280RYDTU_T	KA5M0365RTU	KA5M0365RYDTU
KA5M0380RTU	KA5M0380RYDTU	

Qualification Plan	Device	Package	Process	No. of Lots
Q20150133	KA5M0365RYDTU	TO220F 4L	FPS	3

Test Description:	Condition:	Standard:	Duration:	Results:
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/231
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/231
Temperature Humidity Bias Test	85C, 85%RH, Vcc=19V->12V	JESD22-A110	1000 hrs	0/231



## Title : Qualification Report for PCN : P542AAB

Date : Nov. 17, 2016

Affected devices :

Customer Name : DIGI-KEY CORPORATION

Customer Code : 0003948101

Product	Customer Part Number	BBB	Drawing
KA1H0165RTU		Y	N
KA1M0565RTU		Y	N
KA5H0365RTU		Y	N
KA5M0380RYDTU		Y	N

### Qualification Test Summary :

Qualification Plan	Device	Package	Process	No. of Lots
Q20150133	KA5M0365RYDTU	TO220F 4L	FPS	3

Test Description:	Condition:	Standard:	Duration:	Results:
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/231
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/231
Temperature Humidity Bias Test	85C, 85%RH, <u>V<sub>cc</sub></u> =19V->12V	JESD22-A110	1000 hrs	0/231

The selection methodology of qualification vehicles is aligned with JESD47 and if automotive devices are impacted by the PCN the selection of qualification vehicles is also align with the requirements in AEC-Q100 or AEC-Q101

Please contact your local Customer Quality Engineer if you have any questions concerning this data.