	Product Change Notification (Notification - P1903016-DIGI)	
	(MCP-AC-19-0012 / DPE005 / MCP-AB-19-0008 / 3)	
	March 18, 2019	
То:	Our Valued Digi-Key Electronics Customer	
Overview:	The purpose of this notification is to communicate a product of Electronics America, Inc. (REA) devices.	change of select Renesas
	This notification announces various changes to changes select See Appendix 1 for a list of affected part numbers and change additional change details.	
	There is no part number change. There is no change in pro- characteristics. There is no impact to quality and/or reliability.	duct specifications and/or
Affected Products:	A review of our records indicates the list of products in Ap company.	pendix 1 may affect your
	Part numbers given in this list are for active part numbers in RE this notification.	EA database at the time of
Key Dates:	Shipments from REA of new products begins. Cross shipments of old and new product may continue for a period of time.	Aug. 1 <sup>st</sup> , 2019
Response:	No response is required. REA will consider this notification a issue. If you anticipate volumes beyond your regular rate prior to contact your REA sales representative with a forecast of your response to the sales representative with a forecast of your response.	the transition date, please
	If the customer provides a timely acknowledgement, the customer shall have 90 the date of receipt of this notification in which to make any objections to the notification within 90 days of the receipt of the notific the notification as approved. If customer cannot accept the notification, then the with a last time buy demand and purchase order.	ification. If the customer does not cation, then Renesas will consider
Please contact your REA	A sales representative for any questions or comments.	
Thank you for your atten	tion.	
Sincerely,		
Renesas Electronics Am	erica, Inc.	

#### Appendix 1: Digi-Key Affected Part Number List

Booking PN	Change
R5F104GKAFB#30	
R5F104GKAFB#50	
R5F104GLAFB#30	
R5F104GLAFB#50	
R5F104LKAFB#30	1. Die Mount Material Change
R5F104LKAFB#50	2. Mold Resin Material Change
R5F104LLAFB#30	3. No Bond Wire Change
R5F104LLAFB#50	4. Addition of ASEKH as Assembly Site
R5F104MKAFB#30	5. Addition of RSB & KYEC as FT Sites
R5F104MKAFB#50	6. Package Dimension Change
R5F104MLAFB#30	7. Leadframe Material Change
R5F104MLAFB#50	8. Top Mark Change;
R5F104PKAFB#30	
R5F104PKAFB#50	
R5F104PLAFB#30	
R5F104PLAFB#50	



#### **Appendix 2: Change Details**



Appendix 2: Change Details (cont.)

## Outline

Addition of assembly factory:	
Current factory: Renesas Semiconductor (Beijing) Co.,Ltd (RSB)	
Additional factory: ADVANCED SEMICONDUCTOR ENGINEERING, INC. (ASEKH)	
Addition of sorting factory:	
Current factory: Renesas Semiconductor (Beijing) Co.,Ltd (RSB)	
Additional factory: King Yuan Electronics Co., Ltd. (KYEC)	
Change of material: 1)Lead frame, 2)Die mount, 3)Resin	
Addition of package outline:	
Assembly factory is added, and the package outline form is also added.	
Change of marking: Changes at assembly factory	
Storage conditions after opening the moistureproof packaging of ASEKH products:	
Current: 30°C/70%RH/168hr	
New: 30°C/60%RH/168hr (Confirming to the JEDEC standard)	
Specification and characteristics of product:	
No change	
Quality and reliability:	
No change	

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# **Difference of specification**

em	Current	New
ly factory	RSB	ASEKH
factory	RSB	RSB / KYEC
Outline	No change	Change (Refer to pages 5 to 12)
Material	No change	
Inner pattern	No change Change (Refer to page13)	
Material	No change (Ag epoxy paste)	Change (Ag epoxy paste)
Material	No change Cu (Pd coating)	
Material	No change (halogen-free )	Change (halogen-free )
Material	No	change
Font	No change	Change (Refer to page 14)
Digit number	No change	
Tray/ Emboss tape	No change	
	ly factory factory Outline Material Inner pattern Material Material Material Material Font Digit number Tray/	ly factory RSB factory RSB Outline No change Material No change Material No change Material No change (Ag epoxy paste) Material No change (Ag epoxy paste) Material No change (halogen-free) Material No change (halogen-free)

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Appendix 2: Change Details (cont.)



#### Difference of Appearance\_14mm×14mm 100pin \*Character is reference example

		***	Sharacter is reference example
	Package surface	Package back	Lead bending shape
New	P5F10MP60 540LP01		
Current	R5F10MPED 447FZ00		<u>_</u>
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Appendix 2: Change Details (cont.)



#### Difference of Appearance\_12mm×12mm 80pin %Character is reference example

		**	sitalacter is reference example
	Package surface	Package back	Lead bending shape
New	R5F10MMGD 54DLP00		s
Current	R55-F0MMED 553FZ2D		5
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#### Difference of Appearance\_10mm×10mm 64pin \*Character is reference example

_			character is reference example
	Package surface	Package back	Lead bending shape
New	RSF10WLGA 54NLP00		ي. ا
Current	R5FID/LCA 538FZ00		5
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Appendix 2: Change Details (cont.)



#### Difference of Appearance\_7mm×7mm 48pin %Character is reference example

			Silalacter is reference example
	Package surface	Package back	Lead bending shape
New			511
Current	62012A0 1523160 GFL		5 II
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Appendix 2: Change Details (cont.)



# **Difference of Marking Visibility**

Assembly Line		New	Current
Whole Photo	95F 540	10MPGD PD1	R5FIOHPED 447FZ00
Detail Photo	R	5F	RSF
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Appendix 2: Change Details (cont.)

Item	Check Result	judgement		
Machine	Machine Changing at assembly and sorting. The machines are equivalent to present machines.   There are production of similar copper wire products and we have already checked the additional products have no risk on the production.			
Method	The same as current products.	No risk		
Man	Using operator certification system. Only certificated operator can work for	No risk		
Material	the production. Using only certificated copper wire. And furthermore certificated materials for the Cu wiring products are applied. The products has been certificated by reliability test same as present products and have no risk.	No risk		
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