



<b>Title of Change:</b>	Discontinuance of CCD Image Sensors having Gen1 CFA materials.
<b>Last Time Buy Date:</b>	17 February 2016
<b>Last Ship Date:</b>	17 August 2016
<b>Contact information:</b>	Contact your local ON Semiconductor Sales Office or <PCN.Support@onsemi.com >
<b>Type of notification:</b>	Customers must notify ON Semiconductor (<PCN.Support@onsemi.com >) in writing within 90 days of receipt of this notification if they consider the discontinued product to be "Sole Source." ON Semiconductor and the customer may negotiate an appropriate End-of-Life.

**Description and Purpose:****SUMMARY OF CHANGES:**

- 1) LAST BUY DATE: 17 February 2016
- 2) LAST SHIP DATE: 17 August 2016
- 3) Our supplier of Gen1 CFA materials has announced discontinuance, i.e., an end date for manufacture. For this reason, ON Semiconductor will be unable to continue offering products having Gen1 CFA materials.
- 4) Table 1 describes schedule.
  - a. A number of products previously listed in Phase C will not be converted to Gen2. This grouping is comprised of KAI-2001, KAI-2093, KAI-4011, KAI-4021, and KLI-2104. *In all instances, were demand to ramp up to a level where conversion makes sense, classifications could be revisited.*
  - b. In some cases, users of products not having a Gen2 replacement version can adopt closely related products that'll remain in the portfolio. See the "List of affected Standard Parts".

Availability of these products is limited, and fulfillment of LTB orders is subject to availability.

**RATIONALE:**

Consistent with JEDEC Standard No. 48-C, this letter serves as notification that ON Semiconductor is discontinuing a series of color Interline Transfer CCD Image Sensors, color Full Frame CCD Image Sensors, and color Linear CCD Image Sensors which use Gen1 Color Filter Array (CFA) materials. New CFA materials have been adopted for these devices, based on notification by our supplier that the materials currently used in these products are being discontinued. Transitioning to the new CFA materials will help ensure continued CCD image sensor availability from ON Semiconductor. Refer to our notification dated July 30, 2014 for additional background on this topic.

Discontinued Orderable Part Numbers (OPNs) are shown in a list on later pages of this document, as are recommended replacement OPNs.

**TIME LINE FOR CONVERSION OF OTHER COLOR IMAGE SENSORS:**

It is anticipated that Phase C products will be converted from Gen1 to Gen2 CFA materials per the schedule presented in Table 1. Dates are approximate, and subject to change.

Color variants of image sensors previously tagged as NOT RECOMMENDED FOR NEW DESIGNS at ON's website will, due to very low demand by an extremely limited number of customers, not be converted to Gen2 CFA materials. Devices in this category include:

- KAI-2001
- KAI-2093
- KAI-4011
- KAI-4021
- KLI-2104

In all instances, were demand to ramp up to a level where conversion makes sense, classifications could be revisited. As noted previously, some products not having a Gen2 replacement version can substitute a related product that will remain in the portfolio. See the "List of affected Standard Parts".



Phase	Products	Target for sample availability (first product in Phase)	Target for sample availability (last product in Phase)	Last Buy Date	Last Ship Date
A	KAI-01050	Samples for all devices available today		14-Jan-16	14-Jan-16
	KAI-01150				
	KAI-02050				
	KAI-02150				
	KAI-04050				
	KAI-16050				
	KAI-29050				
B	KAI-02170	Samples for all devices available today		1-Feb-16	1-Aug-16
	KAI-04070				
	KAI-16070				
C	KAF-40000	Aug-15	Dec-15	1-Feb-16	1-Aug-16
	KAI-0340				
	KAI-2020				
	KAI-04022				
	KAI-1020				
	KAI-11002 (all versions other than - CAA)				
	KAI-16000				
	KLI-2113				
	KLI-4104				
KLI-8023					
Not being converted	KAF-8300	Not applicable	Not applicable	1-Feb-16	1-Aug-16
	KAF-50100				
	KAI-0330				
	KAI-0373				
	KAI-2001				
	KAI-2093				
	KAI-4011				
	KAI-4021				
	KAI-11002-CAA				
KLI-2104					

**Table 1: CFA conversion rollout and timeline**

Gen2 OPNs for KAI-04022 are expected to be sampling by August, 2015. These, therefore, will be the first Phase C products available to customers.

In an attempt to minimize the number and frequency of product discontinuance notices to its customers, ON Semiconductor is publishing this quarterly product discontinuance notification.

Some of the devices contained in this notice may be part of a product portfolio renewal process or a manufacturing facility closure. ON Semiconductor continually monitors worldwide sales and billings activities on all the products offered to its customers.

The activity for the products on the attached device list has declined to a level that warrants the discontinuance of these products or the manufacturing facility has been announced for a closure. Some devices may have an alternate standard device or a suggested replacement as an alternative solution.

ON Semiconductor wishes to promptly inform our customer of our intent to exit this small portion of our overall portfolio so that you may plan appropriately and effectively for replacement devices.

ON Semiconductor has provided a list of replacement devices, where available, to aid in this process. For those devices that have no recommended replacement identified, ON Semiconductor has partnered with Rochester Electronics who will carry any remaining device inventory as well as mask sets, etc. to potentially allow for a continued source after ON Semiconductor has completed its business process.



PLEASE NOTE: ON Semiconductor may implement minimum order quantities or dollar amounts based on inventories available. Also, Devices on this Product Discontinuance become NCNR (Non-Cancelable, Non-Returnable).

For questions or concerns regarding this notification, please contact your local sales office or customer service representative.

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NOTE: UPON PUBLICATION OF THIS DISCONTINUANCE NOTICE, ON SEMICONDUCTOR ALLOWS SIX (6) MONTHS FROM THE NOTICE DATE TO PLACE FINAL LIFETIME PURCHASE ORDERS. ACCEPTANCE IS SUBJECT TO REASONABLE ORDER QUANTITIES, PRODUCT AVAILABILITY AND ALL OTHER APPLICABLE TERMS AND CONDITIONS

NOTE: TO ALLOW AN ORDERLY EXIT FROM THE MARKET, PRODUCT SHALL NOT BE DELIVERED AFTER TWELVE (12) MONTHS BEYOND THE ANNOUNCEMENT DATE.



## List of Affected Standard Parts (Phases B and C):

Device to be Discontinued	Recommended Replacement	Other Replacement Options
KAF-40000-CXA-JD-AA	KAF-40000-FXA-JD-AA	
KAF-50100-CAA-JD-AA	N/A	KAF-40000
KAF-8300-CXB-CB-AA-OFFSET	N/A	KAF-8300-AXC-CB-AA (monochrome)
KAI-02170-CBA-JD-BA	KAI-02170-FBA-JD-BA	
KAI-02170-PBA-JD-BA	KAI-02170-QBA-JD-BA	
Device to be Discontinued	Recommended Replacement	Other Replacement Options
KAI-0330-CBA-CB-BA-DUAL	N/A	KAI-0340, KAI-01150
KAI-0340-CBA-CB-AA-DUAL	KAI-0340-FBA-CB-AA-DUAL	
KAI-0340-CBA-CB-AA-SINGLE	KAI-0340-FBA-CB-AA-SINGLE	
KAI-0373-EBA-CB-BA	N/A	KAI-01150
KAI-04022-CBA-CD-BA	KAI-04022-FBA-CD-BA	
KAI-04022-CBA-CR-BA	KAI-04022-FBA-CR-BA	
KAI-04070-CBA-JD-BA	KAI-04070-FBA-JD-BA	
KAI-04070-PBA-JD-BA	KAI-04070-QBA-JD-BA	
KAI-1020-CBA-FD-BA	KAI-1020-FBA-FD-BA	
KAI-1020-CBA-JD-BA	KAI-1020-FBA-JD-BA	
KAI-11002-CAA-CD-B1	N/A	KAI-11002-FBA-CD-B1 (includes microlenses)
KAI-11002-CAA-CD-B2	N/A	KAI-11002-FBA-CD-B2 (includes microlenses)
KAI-11002-CBA-CD-B1	KAI-11002-FBA-CD-B1	
KAI-11002-CBA-CD-B2	KAI-11002-FBA-CD-B2	
KAI-16000-CXA-JD-B1	KAI-16000-FXA-JD-B1	
KAI-16000-CXA-JD-B2	KAI-16000-FXA-JD-B2	
KAI-16070-CXA-JD-B1	KAI-16070-FXA-JD-B1	
KAI-16070-CXA-JD-B2	KAI-16070-FXA-JD-B2	
KAI-16070-PXA-JD-B1	KAI-16070-QXA-JD-B1	
KAI-16070-PXA-JD-B2	KAI-16070-QXA-JD-B2	
KAI-2001-CBA-CD-BA	N/A	KAI-2020
KAI-2020-CBA-CD-BA	KAI-2020-FBA-CD-BA	
KAI-2020-CBA-CR-BA	KAI-2020-FBA-CR-BA	
KAI-2093-CBA-CB-BA	N/A	KAI-02170
KAI-4011-CBA-CD-BA	N/A	KAI-04070, KAI-04022
KAI-4021-CBA-CD-BA	N/A	KAI-04070, KAI-04022



# Product Discontinuance Notification

Document # : PD20725XA

Issue Date: 17 August 2015

KAI-4021-CBA-CR-BA	N/A	KAI-04070, KAI-04022
KLI-2104-DAA-EB-AA	N/A	KLI-4104
KLI-2104-DAA-ED-AA	N/A	KLI-4104
KLI-2113-DAA-ED-AA	KLI-2113-RAA-ED-AA	
KLI-4104-DAA-CB-AA	KLI-4104-RAA-CB-AA	
KLI-4104-DAA-CP-AA	KLI-4104-RAA-CP-AA	
KLI-8023-DAA-ED-AA	KLI-8023-RAA-ED-AA	