



## Final Product/Process Change Notification

Document #:FPCN24116X

Issue Date:19 Oct 2021

Title of Change:	Cosmetic CFA change to the XGS20Mp family (similar to the XGS32Mp family)	
Proposed First Ship date:	26 Jan 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or <a href="mailto:Danny.Scheffer@onsemi.com">Danny.Scheffer@onsemi.com</a>	
PCN Samples Contact:	Contact your local onsemi Sales Office or < <a href="mailto:PCN.samples@onsemi.com">PCN.samples@onsemi.com</a> >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office or <a href="mailto:Paul.Syndergaard@onsemi.com">Paul.Syndergaard@onsemi.com</a>	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
Marking of Parts/ Traceability of Change:	NA, no marking change planned	
Change Category:	CFA change, layout and visual change only. no microlenses above non-active pixel array. No change to the active pixel array of the XGS 20000. With this change it will be identical to the XGS 32000	
Change Sub-Category(s):	Product specific change	
Sites Affected:		
onsemi Sites		External Foundry/Subcon Sites
onsemi Nampa Idaho, United States		None
Description and Purpose:		
As part of supply chain optimization, the XGS 20000 family of four (4) OPNs will utilize the XGS 32000 CFA with microlens. Other than the visual “optical black layer” extending over the non-active pixel array, there is NO CHANGE to the XGS 20000 settings and package BOM.		
“There is no product marking change as a result of this change”		



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### Reliability Data Summary:

QV DEVICE NAME XGS45M

RMS B52911, P63708, I 67132

PACKAGE 251 CPGA

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hours	0/45
HTSL	JESD22-A103	Ta= 150°C	1008 hours	0/9
TC	JESD22-A104	Ta= -40°C to +125°C	1000 cycles	0/25
ESD HBM	JS-001-2017	2000 Volts	2000 Volts	0/3
ESD CDM	JS-002-2018	500 Volts	500 Volts	0/3
LU	JESD78	Ta= 85°C, +/-100mA	Pass	0/9
MS	JESD22- B110	Mechanical Shock, Condition A. Step 1 of sequential stresses		0/9
VVF	JESD22-B103	Variable Vibration Frequency, Condition 1. Step 2 of sequential stresses		0/9
VIS	JESD22-B103 JESD22-B104	Visual Inspection Step 3 of sequential stress		0/9
GL	MIL-STD-883 M1014	Gross leak. No pressurization step Step 4 of sequential stress		0/9
ELEC	ATE	Electrical test Step 5 of sequential stress	Pass	0/9

**Table 1: Reliability Evaluation Results - Qualification Points in BOLD**

### Electrical Characteristics Summary:

Electrical characteristics are not impacted.

### List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
NOIX1SN020KB-GTI	NA
NOIX1SE020KB-GTI	NA
NOIX0SN020KB-GTI	NA
NOIX0SE020KB-GTI	NA