



Final Product/Process Change Notification

Document #:FPCN24518X

Issue Date:18 Aug 2022

Title of Change:	Addition of Greatek as package assembly site for QFN-32 4X4 NCP4549x product series.		
Proposed First Ship date:	25 Nov 2022 or earlier if approved by customer		
Contact Information:	Contact your local onsemi Sales Office or Peter.Vo@onsemi.com		
PCN Samples Contact:	Contact your local onsemi Sales Office. 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 Phine.Guevarra@onsemi.com		
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 PCN.Support@onsemi.com		
Marking of Parts/ Traceability of Change:	Affected parts can be identified by the assembly site code on the package marking traceability code.		
Change Category:	Assembly Change		
Change Sub-Category(s):	Manufacturing Site Addition, Material Change		
Sites Affected:			
onsemi Sites		External Foundry/Subcon Sites	
None		Greatek Electronics Inc., Taiwan	
Description and Purpose:			
This final change notification is to inform the completed qualification of Greatek Electronics Inc. located in Taiwan to be added as an additional site for the assembly of QFN-32 4X4 MM packages of NCP4549x product series. Material BOM at Greatek are standard material for the package types. This site addition allows for added manufacturing capacity while also allowing to mitigate future supply chain constraints. There is no change to the product marking.			
	Before Change Description	After Change Description	
Assembly Site	UTAC Thailand Site 1 (Bangkok) UTAC Thailand Site 3 (Bangsamak)	UTAC Thailand Site 1 (Bangkok) UTAC Thailand Site 3 (Bangsamak)	Greatek Site 1 (Zhunan) Greatek Site 3 (Toufen)
Die Attach	Henkel ABLETHERM 8600	Henkel ABLETHERM 8600	Hitachi EN4900LR
Mold Compound	Sumitomo G770HCD	Sumitomo G770HCD	Sumitomo G700HA



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Reliability Data Summary:

QV DEVICE NAME: NCP45491XMNTWG

RMS : 083320

PACKAGE: QFN-32 4X4

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/308
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/308
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/308
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/308
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/308
PC	J-STD-020 JESD-A113	MSL 1 @ 260°C		Pass
SD	JSTD002	Ta = 245C, 5 sec		Pass

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
NCP45491XMNTWG	NCP45491XMNTWG
NCP45492XMNTWG	NCP45491XMNTWG
NCP45495XMNTWG	NCP45491XMNTWG