



Final Product/Process Change Notification

Document #:FPCN23695X

Issue Date:15 Mar 2022

Title of Change:	Redriver Conversion from Au Wire to AuPdCu Wire	
Proposed First Ship date:	22 Jun 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Jonathan.Bass@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 Joe.Chapple@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:	Date code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	UTAC, Thailand	
Description and Purpose:		
	Before Change Description	After Change Description
NB7NPQ7222MMUTXG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NPQ7022MMUTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7VPQ904MMUTWG Bond Wire	0.8 mil Au	1.0 mil AuPdCu
NB7NPQ1102MMTTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NPQ1002MMTTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NPQ1204MMTTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NPQ1104MMTTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NPQ1004MMTTWG Bond Wire	1.0 mil Au	1.0 mil AuPdCu
NB7NQ621MMUTWG Bond Wire	0.8 mil Au	1.0 mil AuPdCu
There is no product marking change as a result of this change		

Reliability Data Summary:

QV DEVICE NAME: NB7NPQ1104MMTTWG

RMS: 73555

PACKAGE: WQFN42

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 120% max rated Vcc	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/255
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/231
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231

QV DEVICE NAME: NB7NQ621MMTTWG

RMS: 78772

PACKAGE: X2QFN38

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/255
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/231
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231

QV DEVICE NAME: NB7NPQ1102MMTTWG

RMS: 78887

PACKAGE: WQFN30

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/77
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/77
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77

Electrical Characteristics Summary:

Electrical characteristics are not impacted.



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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
NB7NPQ7222MMUTXG	NB7NQ621MMTTWG / NB7NPQ1104MMTTWG
NB7NPQ7022MMUTXG	NB7NQ621MMTTWG / NB7NPQ1104MMTTWG
NB7VPQ904MMUTWG	NB7NQ621MMTTWG / NB7NPQ1104MMTTWG
NB7NPQ1102MMTTWG	NB7NPQ1102MMTTWG / NB7NPQ1104MMTTWG
NB7NPQ1002MMTTWG	NB7NPQ1102MMTTWG / NB7NPQ1104MMTTWG
NB7NPQ1204MMTTWG	NB7NPQ1104MMTTWG
NB7NPQ1104MMTTWG	NB7NPQ1104MMTTWG
NB7NPQ1004MMTTWG	NB7NPQ1104MMTTWG
NB7NQ621MMUTWG	NB7NQ621MMTTWG / NB7NPQ1104MMTTWG

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NB7VPQ904MMUTWG		NB7NQ621MMTTWG / NB7NPQ1104MMTTWG	N/A	