

PCN Number:	20181108001.1	PCN Date:	Nov 15, 2018
Title:	Qualification of MIHO8 as an additional Wafer Fab Site option for select devices in LBC8LV Technology		
Customer Contact:	<u>PCN Manager</u>	Dept:	Quality Services
Proposed 1st Ship Date:	Feb 15, 2019	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<input type="checkbox"/> Assembly Site	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Assembly Materials	
<input type="checkbox"/> Design	<input type="checkbox"/> Electrical Specification	<input type="checkbox"/> Mechanical Specification	
<input type="checkbox"/> Test Site	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Process	
<input type="checkbox"/> Wafer Bump Site	<input type="checkbox"/> Wafer Bump Material	<input type="checkbox"/> Wafer Bump Process	
<input checked="" type="checkbox"/> Wafer Fab Site	<input type="checkbox"/> Wafer Fab Materials	<input type="checkbox"/> Wafer Fab Process	
	<input type="checkbox"/> Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of its MIHO8 fabrication facility as an additional Wafer Fab source for the selected devices listed in "Product Affected" section.

Current Sites			Additional Sites		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DP1DM5	LBC8LV	200mm	MIHO8	LBC8LV	200mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of Supply

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Current

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
DP1DM5	DM5	USA	Dallas

New Fab Site

Chip Site	Chip Site Origin (20L)	Chip Site Country Code (21L)	Chip Site City
MIHO8	MH8	JPN	Ibaraki

Sample product shipping label (not actual product label)



MADE IN: Malaysia
2DC: 20:

MSL '2 / 260C / 1 YEAR	SEAL DT
MSL 1 / 235C / UNLIM	03/29/04

OPT:
ITEM: 39
LBL: 5A (L)T0:1750




(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T) LOT: 3959047MLA
(4W) TKY (1T) 7523483SI2
(P)
(2P) REV: (V) 0033317
(20L) CSO: SHE (21L) CCO: USA
(22L) ASO: MLA (23L) ACO: MYS

Product Affected:

UCC21225ANPL	UCC21225ANPLR	UCC21225ANPLT
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Qualification Report

**UCC21225ANPLR MIHO Offload
Approve Date 22-Oct-2018**

Product Attributes

Attributes	Qual Device: UCC21225ANPLR	QBS Product Reference: UCC21225ANPL	QBS Process Reference: UCC21520ADWR	QBS Process Reference: UCC21520AQDWRQ
Assembly Site	TIPI	TIPI	DAL	TITL
Package Family	LGA	LGA	-	SOIC; 7.5 x 10.3 MM
Flammability Rating	UL 94 V-0	UL 94 V-0	-	-
Wafer Fab Supplier	MIHO 8, MIHO8	DMO5	MH8	MIHO
Wafer Fab Process	LBC8LV-ISO	LBC8LVISO	LBC8LVISO	LBC8LVISO

- QBS: Qual By Similarity
- Qual Device UCC21225ANPLR is qualified at LEVEL3-260CG
- Device UCC21225ANPLR contains multiple dies.

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: UCC21225ANPLR	QBS Product Reference: UCC21225ANPL	QBS Process Reference: UCC21520ADWR	QBS Process Reference: UCC21520AQDWRQ
AC	Autoclave 121C	96 Hours	-	-	-	1/77/0
CDM	ESD - CDM	2000 V	1/3/0	-	1/3/0	-
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	-	Pass
HAST	Biased HAST, 110C/85%RH	264 Hours	-	3/231/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	1/77/0
HBM	ESD - HBM	5000 V	1/3/0	-	1/3/0	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	1/77/0
HTSL	High Temp Storage Bake 150C	500 Hours	-	3/231/0	-	-
LU	Latch-up	Per JESD78	-	-	1/6/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	2/184/0	-	1/77/0

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free (SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below, or you can contact your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
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