

PCN Number:	20210325002.1		PCN Date:	Mar 31, 2021	
Title:	Qualification of MIHO8 as additional Fab Site option for select ABCD05HV devices				
Customer Contact:	PCN Manager		Dept:	Quality Services	
Proposed 1st Ship Date:	Jun 30, 2021	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		

Notification 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 the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
MAINEFAB	ABCD05HV	200 mm	MIHO8	ABCD05HV	200 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of supply.

Anticipated impact on Fit, Form, 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
MAINEFAB	CUA	USA	South Portland

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) TO: 1750



(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T) LOT: 3959047MLA
(4W) TKY (1T) 7523483S12
(P)
(2P) REV: (V) 0033317
(20L) CSO: SHE (21L) CCO: USA
(23L) ASO: MLA (23L) ACO: MYS

Product Affected:

LM25017MR/NOPB	LM25119PSQE/NOPB	LM34927MRX/NOPB	LM5017MRX/NOPB
LM25017MRE/NOPB	LM25119PSQX/NOPB	LM34927SD/NOPB	LM5017SD/NOPB
LM25017MRX/NOPB	LM3414HVMR/NOPB	LM34927SDX/NOPB	LM5017SDE/NOPB
LM25017SD/NOPB	LM3414HVMRX/NOPB	LM34927HCMH/NOPB	LM5017SDX/NOPB
LM25017SDE/NOPB	LM3414MR/NOPB	LM34927HCMHX/NOPB	LM5160ADNTJ
LM25017SDX/NOPB	LM3414MRX/NOPB	LM5017MR/NOPB	LM5160ADNTR
LM25119PSQ/NOPB	LM34927MR/NOPB	LM5017MRE/NOPB	LM5160ADNTT

Qualification Report

Approve Date 25-February-2021

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM3414MX/NOPB	Qual Device: LM5017MRX /NOPB	Qual Device: LM5160ADNTJ	Qual Device: LM25119PSQX/NOPB	Qual Device: LM34927HMQMHX/NOPB	QBS Process Reference: TCAN1042HVDRQ1	QBS Package Reference: LM5020MMX1NOPB	QBS Package Reference: LM34919CQTLX/NOPB
AC	Autoclave, 121C	96 Hours	-	-	-	-	-	3/231/0	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	1/30/0	1/30/0	1/30/0	3/90/0	-	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	-	-	3/2400/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-	3/231/0	-	3/231/0
BTH	Biased Temp & Humidity 85C/85%RH	1000 Hours	-	-	-	-	-	-	3/231/0	-
HBM	ESD - HBM	2000 V	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	-	-
CDM	ESD - CDM	500 V	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	1/3/0	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	-	-	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	-	-	1/45/0	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	-	-	-	-	3/231/0	3/231/0
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	1/6/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	-	-	-	3/231/0	3/231/0	3/231/0

- QBS: Qual By Similarity

- Qual Device LM3414MRX/NOPB is qualified at LEVEL3-260C

- Qual Device LM5017MRX /NOPB is qualified at LEVEL3-260C

- Qual Device LM5160ADNTJ is qualified at LEVEL1-260C

- Qual Device LM25119PSQX/NOPB is qualified at LEVEL3-260C

- Qual Device LM34927HMQMHX/NOPB is qualified at LEVEL1-260C

- 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

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