

PCN Number:	20220601001.1	PCN Date:	June 02, 2022
Title:	Qualification of new Fab Site (MIHO8), die revision, Assembly site (MLA), assembly BOM options and datasheet updates		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Sep 2, 2022	Sample Requests accepted until:	July 2, 2022*

***Sample requests received after July 2, 2022 will not be supported.**

Change Type:

<input checked="" type="checkbox"/>	Assembly Site	<input checked="" type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials
<input checked="" type="checkbox"/>	Design	<input checked="" 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 checked="" type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased announce the qualification of a new Fab Site (MIHO8), die revision, Assembly site (MLA), assembly BOM options and datasheet updates for the devices listed in the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter
D MOS5	50HPA07ISO	200 mm	MIHO8	LBC8	200 mm

The die was also changed as a result of the process change

Qual details are provided in the Qual Data Section.

BOM/Assembly options are as follows:

	TAI	MLA
Bond wire diameter composition, diameter	Au, 0.96 mil	1mil PCC Die-> LF .96mil Au Die->Die
Mold Compound	4209640	4211880

The datasheet number will be changing:

Product Family	Current Datasheet Number	New Datasheet Number
ISO1540, ISO1541	SLLSEB6E	SLLSEB6F

The product datasheet(s) is being updated as summarized below:

ISO1540/1

4 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision E (March 2019) to Revision F (May 2022)	Page
• Editorial and cosmetic changes throughout the document.....	1
• Updated electrical and switching parameters.....	6
• Updated 'DIN VDE V 0884-11:2017-01' to 'DIN EN IEC 60747-17 (VDE 0884-17)' and removed references to 'CSA/IEC 60950-1'.....	9

Reason for Change:

Supply continuity.

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

None

Impact on Environmental Ratings

Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

RoHS	REACH	Green Status	IEC 62474
<input checked="" type="checkbox"/> No Change			

Changes to product identification resulting from this PCN:

Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
D MOS5	DM5	USA	Dallas
MIH08	MH8	JPN	Ibaraki

Die Rev:

Current	New
Die Rev [2P]	Die Rev [2P]
B	A

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
TAI	TAI	TWN	Chung Ho, New Taipei City
MLA	MLA	MYS	Kuala Lumpur

Sample product shipping label (not actual product label)


TEXAS INSTRUMENTS
 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) 600:USA
 (22L) ASO: MLA (23L) ACO: MYS



Qualification Report
Approve Date 24-MARCH -2022

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: ISO1540D	Qual Device: ISO1541D	QBS Reference: AMC1200STDUBRQ1	QBS Reference: ISO7741FODWQ1	QBS Reference: ISO1640DWR	QBS Reference: ISO1641DWR	QBS Reference: ISO6741DWR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	3/231/0	3/231/0	-	-	3/231/0
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	3/231/0	-	-	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	3/231/0	3/231/0	1/77/0	-	3/231/0
TC	A4	Temperature Cycle	-55C/125C	1000 Cycles	-	-	3/231/0	-	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	-	-	3/231/1 ¹	1/77/0	-	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	3/231/0	-	-	3/231/0
HTSL	A6	High Temperature Storage Life	175C	500 Hours	-	-	-	3/231/0	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	3/231/0	3/231/0	-	-	3/231/0
ELFR	B2	Early Life Failure Rate	125C	24 Hours	-	-	3/840/0	-	-	-	-
ELFR	B2	Early Life Failure Rate	125C	48 Hours	-	-	-	3/2400/0	-	-	3/2400/0
WBS	C1	Ball Shear	76 balls, 3	Wires	-	-	-	-	1/76/0	1/76/0	-

WBP	C2	Bond Pull	76 Wires, 3 units min	Wires	-	-	-	-	1/76/0	1/76/0	-
ESD	E2	ESD CDM	-	1500 Volts	-	-	-	1/3/0	1/3/0	1/3/0	1/3/0
ESD	E2	ESD HBM	-	6000 Volts	-	-	-	1/3/0	1/3/0	-	-
LU	E4	Latch-Up	Per JESD78	-	-	-	-	1/3/0	1/3/0	1/3/0	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	-	-	3/90/0	3/90/0	1/30/0	1/30/0	1/30/0

- QBS: Qual By Similarity
- Qual Device ISO1540D is qualified at MSL2 260C
- Qual Device ISO1541D is qualified at MSL2 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

TI Qualification ID: R-CHG-2203-022

[1]-EOS. Discounted: QTS_487131-1

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

Location	E-Mail
WW Change Management Team	PCN_ww_admin_team@list.ti.com

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