

PCN Number:	20260609002.1A	PCN Date:	July 02, 2026		
Title:	Qualification of AIZU/RFAB as an additional Fab site and TI Chengdu as additional Assembly site options for select devices				
Customer Contact:	Change Management Team	Dept:	Quality Services		
Proposed 1st Ship Date:	September 13, 2026	Sample requests accepted until:	August 14, 2026*		
*Sample requests received after August 14, 2026 will not be supported.					
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design		
<input checked="" type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet		
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change		
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site		
<input checked="" type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process		
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material		
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process		
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Wafer Fab Site		
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Wafer Fab Material		
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process		
PCN Details					
Description of Change:					
Revision A is to update the wafer diameter for AIZU fab site. We apologize for any inconvenience this may have caused.					
Texas Instruments is pleased to announce the qualification of AIZU/RFAB as an additional Fab site option & TI Chengdu as additional Assembly site options for the devices listed below.					
Current Fab Site			Additional Fab site		
Current Fab Site	Process	Wafer Diameter	Additional Fab site	Process	Wafer Diameter
DMOS5	50HPA07	200mm	AIZU/RFAB	50HPA07	200mm/300mm
Construction differences are as follows:					
	Current Site				Additional Site
Assembly Site	HFTF	HNA	TFME	UTL2	CDAT
Wire bond Diam/type	1.0mil Au	1.0mil Au	1.0mil Au	1.0mil Au	0.8mil Cu
Mount compound	SID#A-09	SID#A-09	SID#A-09	SID#PZ0037	4226215
Mold compound	SID#R-27	SID#450179	SID#R-07	SID#CZ0096	4222198
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):					
These devices include new die based on existing schematics in a larger diameter wafer fab with or without a die shrink. Review the Standard Data Packet for more details on the changes.					
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	
<input checked="" type="checkbox"/> No Change		<input checked="" type="checkbox"/> No Change		<input checked="" type="checkbox"/> No Change	
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
DMOS5	DM5	USA	Dallas
AIZU	CU2	JPN	Aizuwakamatsu-shi
RFAB	RFB	USA	Richardson

Assembly Site Information:

Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
HFTF	HFT	CHN	Hefei
HNA	HNT	THA	Ayutthaya
TFME	NFM	CHN	Chongchuan
UTL2	NS2	THA	Bangpakong
TI Chengdu	CDA	CHN	Chengdu

Sample product shipping label (not actual product label):

(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:

INA211AIDCKT	INA212AIDCKR	INA212AIDCKT
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Qualification Report

INA210_INA199_COMMERCIAL AIZU

Approve Date 20-DECEMBER -2024

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: INA214AIDCKR	QBS Package, Process, Product Reference: INA210BQDCKRTL
UHA	A3	Unbiased HAST	130C/85%RH	96 Hours	-	1/77/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	1/77/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	1/45/0
PD	C4	Physical Dimensions	Cpk>1.67	-	-	1/10/0
ESD	E2	ESD CDM	-	250 Volts	1/3/0	-
ESD	E2	ESD CDM	-	500 Volts	-	1/3/0
ESD	E2	ESD HBM	-	1000 Volts	1/3/0	-
ESD	E2	ESD HBM	-	2000 Volts	-	1/3/0
LU	E4	Latch-Up	Per JESD78	-	1/3/0	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	-
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	1/30/0

QBS: Qual By Similarity, also known as Generic Data

Qual Device INA214AIDCKR is qualified at MSL1 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:

TI Qualification ID: R-CHG-2312-003

Automotive Qualification Summary (As per AEC-Q100 Rev. J and JEDEC Guidelines)

Approve Date 06-December-2024

Product Attributes

Attributes	Qual Device: INA210BQDCKRTL	QBS Process Reference: INA215AQDCKRQ1	QBS Package Reference: TPS3840PH30DBVRQ1	QBS Package Reference: LM74703QDDFRQ1	QBS Package Reference: TXS0101QDCKRQ1
Automotive Grade Level	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1
Operating Temp Range (C)	-40 to 125	-40 to 125	-40 to 125	-40 to 125	-40 to 125
Product Function	Signal Chain	Signal Chain	Power Management	Power Management	Logic
Wafer Fab Supplier	AIZU	AIZU	RFAB	RFAB	RFAB
Assembly Site	CDAT	TFME	CDAT	CDAT	CDAT
Package Group	SOT	SOT	SOT	SOT	SOT
Package Designator	DCK	DCK	DBV	DDF	DCK
Pin Count	6	6	5	8	6

QBS: Qual By Similarity, also known as Generic Data

Qual Device INA210BQDCKRTL is qualified at MSL1 260C

Note 1: Qual device and affected devices in PCN have justification to use Package QBS references for HAST, AC/UHA and TC-BP based on AEC-100J A1.3 assembly site and package attributes were qualified.

Note 2: Qual device and affected devices in PCN have justification to use Process QBS references for HTOL and ELFR based on AEC-100J A1.2 silicon wafer fab and process attributes were qualified. Group B tests purpose is for silicon defects, they do not get influenced by assembly site or BOM differences.

Note 3: Qual device and affected devices in PCN have justification to use SD QBS based on AEC-100J A1.3 leadframe attributes are qualified.

Note 4: One lot is allowed per AEC-Q100J A1.5.1 Multiple Sites - When the specific product or process attribute to be qualified or requalified will affect more than one wafer fab site or assembly site, a minimum of one lot of testing per affected site is required.

Qualification Results

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

Type	#	Test Spec	Min Lot Qty	SS / Lot	Test Name	Condition	Duration	Qual Device: INA210BQDCKRTL	QBS Process Reference: INA215AQDCKRQ1	QBS Package Reference: TPS3840PH30DBVRQ1	QBS Package Reference: LM74703QDDFRQ1	QBS Package Reference: TXS0101QDCKRQ1
Test Group A - Accelerated Environment Stress Tests												
PC	A1	JEDEC J-STD-020 JESD22-A113	3	77	Preconditioning	MSL1 260C	-	1/Pass Note 4	-	3/Pass	3/Pass	3/Pass
HAST	A2	JEDEC JESD22-A110	3	77	Biased HAST	130C/85%RH	96 Hours	Note 1	-	3/231/0	3/231/0	3/231/0
AC/UHAST	A3	JEDEC JESD22-A102/JEDEC JESD22-A118	3	77	Autoclave	121C/15psig	96 Hours	-	-	3/231/0	-	-
AC/UHAST	A3	JEDEC JESD22-A102/JEDEC JESD22-A118	3	77	Unbiased HAST	130C/85%RH	96 Hours	1/77/0 Note 4	-	-	3/231/0	3/231/0
TC	A4	JEDEC JESD22-A104 and Appendix 3	3	77	Temperature Cycle	-65C/150C	500 Cycles	1/77/0 Note 4	-	3/231/0	3/231/0	3/231/0
TC-BP	A4	MIL-STD883 Method 2011	1	5	Post Temp Cycle Bond Pull	-	-	Note 1	-	1/5/0	1/5/0	1/5/0
HTSL	A6	JEDEC JESD22-A103	1	45	High Temperature Storage Life	150C	1000 Hours	1/45/0 Note 4	-	3/135/0	1/45/0	3/135/0
Test Group B - Accelerated Lifetime Simulation Tests												
HTOL	B1	JEDEC JESD22-A108	3	77	Life Test	125C	1000 Hours	Note 2	3/231/0	3/231/0	-	1/77/0
HTOL	B1	JEDEC JESD22-A108	3	77	Life Test	150C	300 Hours	Note 2	-	-	1/77/0	-
ELFR	B2	AEC Q100-008	3	800	Early Life Failure Rate	125C	48 Hours	Note 2	3/2400/0	-	-	-
Test Group C - Package Assembly Integrity Tests												
WBS	C1	AEC Q100-001	1	30	Wire Bond Shear	Minimum of 5 devices, 30 wires Cpk>1.67	Wires	1/30/0 Note 4	1/30/0	3/90/0	3/90/0	3/90/0
WBP	C2	MIL-STD883 Method 2011	1	30	Wire Bond Pull	Minimum of 5 devices, 30 wires Cpk>1.67	Wires	1/30/0 Note 4	1/30/0	3/90/0	3/90/0	3/90/0
SD	C3	JEDEC J-STD-002	1	15	PB Solderability	>95% Lead Coverage	-	Note 3	-	1/15/0	1/15/0	-
SD	C3	JEDEC J-STD-002	1	15	PB-Free Solderability	>95% Lead Coverage	-	Note 3	-	1/15/0	1/15/0	1/15/0
PD	C4	JEDEC JESD22-B100 and B108	3	10	Physical Dimensions	Cpk>1.67	-	1/10/0 Note 4	-	3/30/0	3/30/0	3/30/0
Test Group D - Die Fabrication Reliability Tests												
EM	D1	JESD61	-	-	Electromigration	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
TDDB	D2	JESD35	-	-	Time Dependent Dielectric Breakdown	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
HCI	D3	JESD60 & 28	-	-	Hot Carrier Injection	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
BTI	D4	-	-	-	Bias Temperature Instability	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
SM	D5	-	-	-	Stress Migration	-	-	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements	Completed Per Process Technology Requirements
Test Group E - Electrical Verification Tests												
ESD	E2	AEC Q100-002	1	3	ESD HBM	-	2000 Volts	1/3/0 Note 4	-	-	-	-
ESD	E3	AEC Q100-011	1	3	ESD CDM	-	500 Volts	1/3/0 Note 4	-	-	-	-
ED	E5	AEC Q100-009	3	30	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	1/30/0 Note 4	-	-	-	-

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

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Ambient Operating Temperature by Automotive Grade Level:

Grade 0 (or E): -40C to +150C

Grade 1 (or Q): -40C to +125C

Grade 2 (or T): -40C to +105C

Grade 3 (or I): -40C to +85C

E1 (TEST): Electrical test temperatures of Qual samples (High temperature according to Grade level):

Room/Hot/Cold : HTOL, ED

Room/Hot : THB / HAST, TC / PTC, HTSL, ELFR, ESD & LU

Room : AC/uHAST

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

TI Qualification ID: R-CHG-2405-062

In performing change qualifications, Texas Instruments follows integrated circuit industry standards in performing defect mechanism analysis and failure mechanism-based accelerated environmental testing to ensure wafer fab process, assembly process and product quality and reliability. As encouraged by these standards, TI uses both product-specific and generic (family) data in qualifying its changes. For devices to be categorized as a 'product qualification family' for generic data purposes, they must share similar product, wafer fab process and assembly process elements. The applicability of generic data (also known at TI as Qualification by Similarity (QBS)) is determined by the Reliability Engineering function following these industry standards. Generic data is shown in the qualification report in columns titled "QBS Process" (for wafer fab process), "QBS Package" (for assembly process) and "QBS Product" (for product family).

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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