




<b>PCN Number:</b>	20180502000	<b>PCN Date:</b>	May 3 2018						
<b>Title:</b>	Qualification of additional Assembly/Test site (ASEN) option for the INA210BIRSWR								
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services						
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Aug 3 2018	<b>Estimated Sample Availability:</b>	Date provided at sample request.						
<b>Change Type:</b>									
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process						
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification						
<input checked="" type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling						
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material						
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials						
<input type="checkbox"/>		<input type="checkbox"/>	Part number change						
<b>PCN Details</b>									
<b>Description of Change:</b>									
Texas Instruments is pleased to announce the qualification of an additional assembly/test (ASEN) site for the INA210BIRSWR. Construction differences are noted below:									
<table border="1"> <tr> <td></td> <td style="text-align: center;"><b>UTAC</b></td> <td style="text-align: center;"><b>ASEN</b></td> </tr> <tr> <td>Mold compound</td> <td style="text-align: center;">SID#CZ0135</td> <td style="text-align: center;"><b>SID#1801512111</b></td> </tr> </table>					<b>UTAC</b>	<b>ASEN</b>	Mold compound	SID#CZ0135	<b>SID#1801512111</b>
	<b>UTAC</b>	<b>ASEN</b>							
Mold compound	SID#CZ0135	<b>SID#1801512111</b>							
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.									
<b>Reason for Change:</b>									
Continuity of Supply									
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>									
None									
<b>Anticipated impact on Material Declaration</b>									
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the <a href="#">TI ECO website</a> .						
<b>Changes to product identification resulting from this PCN:</b>									
<b>Assembly Site Information:</b>									
<b>Assembly Site</b>	<b>Assembly Site Origin (22L)</b>	<b>Assembly Country Code (21L)</b>	<b>Assembly City</b>						
UTAC	NS2	THA	Bangkok						
<b>ASEN</b>	<b>ASN</b>	<b>CHN</b>	<b>Suzhou</b>						
Sample product shipping label (not actual product label)									
   <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>MADE IN: Malaysia 2DC: 20:</p> <table border="1"> <tr> <td>MSL 2 /260C/1 YEAR</td> <td>SEAL DT</td> </tr> <tr> <td>MSL 1 /235C/UNLIM</td> <td>03/29/04</td> </tr> </table> <p>OPT: ITEM: 39 <b>LBL: 5A (L)TO:1750</b></p> </div> <div style="width: 50%;"> <p>(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: HYS</p> </div> </div>				MSL 2 /260C/1 YEAR	SEAL DT	MSL 1 /235C/UNLIM	03/29/04		
MSL 2 /260C/1 YEAR	SEAL DT								
MSL 1 /235C/UNLIM	03/29/04								
<b>Product Affected:</b>									



## Qualification Report

### INA210BIRSW - Cat2CF (AIZU/ASEN) Approve Date 10-Apr-2018

#### Product Attributes

Attributes	Qual Device: INA210BIRSW	QBS Process Reference: INA215AQDCKRQ1
Assembly Site	ASEN	NFME
Package Family	UQFN	SOT
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	AIZU	AIZU
Wafer Process	50HPA07	50HPA07

- QBS: Qual By Similarity

- Qual Device INA210BIRSW is qualified at LEVEL1-260C

#### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: INA210BIRSW	QBS Process Reference: INA215AQDCKRQ1
HTOL	Life Test, 125C	1000 Hours	1/77/0	3/231/0
ELFR	Early Life Failure Rate, 125C	48 Hours	-	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	1/50/0	-
HBM	ESD - HBM	4000 V	2/6/0	-
CDM	ESD - CDM	1500 V	2/6/0	-
LU	Latch-up	(per JESD78)	2/12/0	-
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	-
PD	Physical Dimensions	-	3/30/0	-
SD	Solderability	Pb Free	3/30/0	-
WBP	Bond Pull	Wires	3/90/0	-
WBS	Ball Bond Shear	Wires	3/90/0	-

- 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

THIS INFORMATION RELATING TO QUALITY AND RELIABILITY IS PROVIDED "AS IS." Product information detailed in this report may not accurately reflect TI's current product materials, processes and testing used in the construction of the TI products. Customers are solely responsible to conduct sufficient engineering and additional qualification testing to determine whether a device is suitable for use in their applications. Using TI products outside limits stated in TI's datasheet may void TI's warranty. See TI's Terms of Sale at "<http://www.ti.com/lsds/ti/legal/termsofsale.page>"

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.

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