

<b>PCN Number:</b>	20170628000		<b>PCN Date:</b>	June 29, 2017					
<b>Title:</b>	Die Coating change for Select Devices								
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services						
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Sept 29, 2017	<b>Estimated Sample Availability:</b>	Date provided at sample request						
<b>Change Type:</b>									
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site				
<input checked="" type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material				
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process				
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site				
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials				
				<input type="checkbox"/>	Wafer Fab Process				
<b>PCN Details</b>									
<b>Description of Change:</b>									
Texas Instruments is pleased to announce a change in the Die overcoat material for Select Devices listed in the "Product Affected" Section as follows:									
<table border="1"> <thead> <tr> <th style="width: 50%;">Current</th> <th style="width: 50%;">Proposed</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Die Overcoat</td> <td style="text-align: center;">No Die overcoat</td> </tr> </tbody> </table>						Current	Proposed	Die Overcoat	No Die overcoat
Current	Proposed								
Die Overcoat	No Die overcoat								
<b>Reason for Change:</b>									
Supplier no longer manufactures the die overcoat material used for these devices.									
<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-Info website</a> . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.						
<b>Changes to product identification resulting from this PCN:</b>									
None									
<b>Product Affected:</b>									
INA117AM	INA117BM	INA117SM	INA117SMQ						

# Qualification Report

## INA117 TO-99 (LMC) Die Coat Removal

Approve Date 20-Jun-2017

### Product Attributes

Attributes	Qual Device: INA117SMQ	QBS Process Reference: REF02BU	QBS Process Reference: REF102CU	QBS Package Reference: INA117BM
Assembly Site	MMT	MLA	MLA	MMT
Package Family	TO-Can	SOIC	SOIC	TO99
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	n/a
Wafer Fab Supplier	SFAB	SFAB	SFAB	HFAB/TFAB
Wafer Process	HU-BIP-4 (630G)	BIP460G10B	BIP630G10B	HU-BIP-4 (630G)

- QBS: Qual By Similarity

### Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: INA117SMQ	QBS Process Reference: REF02BU	QBS Process Reference: REF102CU	QBS Package Reference: INA117BM
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	Pass	-
HBM	ESD - HBM	700 V	1/3/0	-	-	-
CDM	ESD - CDM	500 V	1/3/0	1/3/0	-	-
HTOL	Life Test, 125C	1000 Hours	3/226/0	-	1/77/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	1/77/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	-	-

- 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 your local Field Sales Representative.

Location	E-Mail
USA	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>