

PCN Number:	20230329000.1	PCN Date:	March 30, 2023								
Title:	Qualify New Mold compound for Select package Device										
Customer Contact:	PCN Manager	Dept:	Quality Services								
Proposed 1st Ship Date:	June 30, 2023	Sample requests accepted until:	Apr 30, 2023								
*Sample requests received after (Apr 30, 2023) will not be supported.											
Change Type:											
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design								
<input 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 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 type="checkbox"/>	Wafer Fab Site								
		<input type="checkbox"/>	Wafer Fab Materials								
		<input type="checkbox"/>	Wafer Fab Process								
PCN Details											
Description of Change:											
Texas Instruments is pleased to announce the qualification of new mold compound for the device listed in "Product affected" section below. Device will remain in current assembly facility and piece part changes as follows:											
<table border="1"> <thead> <tr> <th>Material</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Mold compound</td> <td>101319573</td> <td>101385017</td> </tr> </tbody> </table>				Material	Current	Proposed	Mold compound	101319573	101385017		
Material	Current	Proposed									
Mold compound	101319573	101385017									
Reason for Change:											
Continuity of supply.											
Anticipated impact on Fit, Form, 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.											
<table border="1"> <thead> <tr> <th>RoHS</th> <th>REACH</th> <th>Green Status</th> <th>IEC 62474</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> <td><input checked="" type="checkbox"/> No Change</td> </tr> </tbody> </table>				RoHS	REACH	Green Status	IEC 62474	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change
RoHS	REACH	Green Status	IEC 62474								
<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change	<input checked="" type="checkbox"/> No Change								
Anticipated impact on Material Declaration											
Changes to product identification resulting from this PCN:											
None.											
Product Affected:											
ADC07D1520CIYB/NOPB	ADC08500CIYB/NOPB	ADC08D1500CIYB/NOPB	ADC08D500CIYB/S7002952								
ADC081000CIYB/NOPB	ADC08B3000CIYB/NOPB	ADC08D1520CIYB/NOPB	ADC08D502CIYB/NOPB								
ADC081500CIYB/NOPB	ADC08D1000CIYB/NOPB	ADC08D1520CIYB/S7002396	LM97835CIYB/NOPB								
ADC083000CIYB/NOPB	ADC08D1010DIYB/NOPB	ADC08D500CIYB/NOPB									
ADC083000CIYB/S7002214	ADC08D1020CIYB/NOPB	ADC08D500CIYB/S7002554									

Qualification Report

Approve Date 07-Feb-2023

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: ADC081000CIYB/NOPB
UFAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	3/231/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	3/66/0
FTY	E6	Final Test Yield	-	-	3/3/0

QBS: Qual By Similarity

Qual Device ADC081000CIYB/NOPB is qualified at MSL3 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

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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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