



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20160519001
Qualify New Assembly Material set for Selected Device(s)
Change Notification / Sample Request

Date: 6/16/2016
To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

20160519001
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
ADS8509IBDW	null
MPC507AU	null
MPC508AU	null
SN75LBC172A16DWR	null
TLC7226CDWG4	null
ADS801U	null
ADS8505IDW	null
TLV5628CDW	null
ADS8507IDW	null
CD4097BM	null
MPC509AUG4	null
ADS8509IDWR	null
DAC902U	null
MPC506AUG4	null
MPC508AU/1K	null
TLV2556IDW	null
TLV5610IDW	null
TLV5628IDWR	null
SN65LBC172ADW	null
TLC7528CDW	null
SN75LBC174A16DWR	null
MPC507AU/1K	null
SN65LBC172A16DWR	null
TLV5629IDWG4	null
ADS8509IDW	null
TLV5630IDW	null
TLC7528CDWR	null
ADS820U	null
TLV5619IDW	null
ADS8508IBDW	null
DAC900U	null
ADS8505IBDW	null
ADS821U	null
ADS1211U	null
ADS800U	null
MPC508AU/1KG4	null
MPC509AU/1KG4	null
TLC5628IDW	null
TLC7528EDWG4	null
TLC0820ACDWR	null
TLC7135CDWRG4	null
ADS1211U/1K	null
ADS8504IBDW	null
ADS8517IBDW	null
MPC508AUG4	null
SN75LBC174ADWR	null
MSP430F1122IDW	null
MSP430F1122IDWR	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20160519001		PCN Date:	06/16/2016																						
Title:	Qualify New Assembly Material set for Selected Device(s)																									
Customer Contact:	PCN Manager	Dept:	Quality Services																							
Proposed 1st Ship Date:	09/16/2016		Estimated Sample Availability:	Date provided at sample request																						
Change Type:																										
☐	Assembly Site	☐	Design	☐	Wafer Bump Site																					
☒	Assembly Process	☐	Data Sheet	☐	Wafer Bump Material																					
☒	Assembly Materials	☐	Part number change	☐	Wafer Bump Process																					
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Site																					
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Materials																					
		☐	Wafer Fab Process																							
PCN Details																										
Description of Change:																										
Texas Instruments is pleased to announce the qualification of new assembly material for devices listed in "Product affected" section below. Devices will remain in current assembly facility and piece part changes as follows: Group 1 Devices: <table border="1"> <thead> <tr> <th>Material</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Mount compound</td> <td>4042500</td> <td>4147858</td> </tr> <tr> <td>Mold compound</td> <td>4205694</td> <td>4211880</td> </tr> </tbody> </table> Group 2 Devices: <table border="1"> <thead> <tr> <th>Material</th> <th>Current</th> <th>Proposed</th> </tr> </thead> <tbody> <tr> <td>Lead frame thickness</td> <td>10 mils</td> <td>10mils, 6mils</td> </tr> <tr> <td>Mount compound</td> <td>4042500</td> <td>4147858</td> </tr> <tr> <td>Mold compound</td> <td>4205694</td> <td>4211880</td> </tr> </tbody> </table>						Material	Current	Proposed	Mount compound	4042500	4147858	Mold compound	4205694	4211880	Material	Current	Proposed	Lead frame thickness	10 mils	10mils, 6mils	Mount compound	4042500	4147858	Mold compound	4205694	4211880
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Material	Current	Proposed																								
Lead frame thickness	10 mils	10mils, 6mils																								
Mount compound	4042500	4147858																								
Mold compound	4205694	4211880																								
Reason for Change:																										
Continuity of supply. 1) To align with world technology trends and use assembly materials with enhanced mechanical properties 2) Maximize flexibility within our Assembly/Test production sites.																										
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):																										
None.																										
Anticipated impact on Material Declaration																										
☐	No Impact to the Material Declaration	☒	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 TI ECO website .																							
Changes to product identification resulting from this PCN:																										
None.																										
Group 1 Product Affected:																										

ADS774HIBDW	BQ4845YS-A4TR	TLC1550IDWR	TLE2084ACDW
ADS774HIBDWR	CD4034BM	TLC1551IDW	TLE2084ACDWG4
ADS774HIDW	CD4042BDW	TLC1551IDWG4	TLE2084CDW
ADS774HIDWR	CD4042BDWE4	TLC1551IDWR	TLE2084CDWG4
ADS8505IBDW	CD4043BDW	TLC2543CDW	TLE2084CDWR
ADS8505IBDWG4	CD4043BDWE4	TLC2543CDWG4	TLE2084IDW
ADS8505IBDWR	CD4043BDWR	TLC2543CDWR	TLE2084IDWG4
ADS8505IDW	CD4044BDW	TLC2543IDW	TLE2144CDW
ADS8505IDWG4	CD4049UBDW	TLC2543IDWG4	TLE2144CDWG4
ADS8505IDWR	CD4049UBDWE4	TLC2543IDWR	TLE2144CDWR
ADS8506IBDW	CD4049UBDWG4	TLC2543IDWRG4	TLE2144CDWRG4
ADS8506IBDWG4	CD4049UBDWR	TLC2558CDW	TLE2144IDW
ADS8506IBDWR	CD4049UBDWRE4	TLC2558CDWG4	TLE2144IDWG4
ADS8506IDW	CD4050BDW	TLC2558IDW	TLE2144IDWR
ADS8506IDWG4	CD4050BDWR	TLC2558IDWG4	TLE2144IDWRG4
ADS8506IDWR	CD4050BDWRE4	TLC2574IDW	TLV0838CDW
ADS8507IBDW	CD4059ADWR	TLC2574IDWG4	TLV0838CDWG4
ADS8507IBDWG4	CD4059AM	TLC2578IDW	TLV0838CDWR
ADS8507IBDWR	CD4059AMG4	TLC2578IDWG4	TLV0838CDWRG4
ADS8507IDW	CD4067BDW	TLC3544CDW	TLV0838IDW
ADS8507IDWG4	CD4067BDWR	TLC3544IDW	TLV0838IDWG4
ADS8507IDWR	CD4067BM	TLC3544IDWG4	TLV0838IDWR
ADS8507IDWRG4	CD4067BM96	TLC3548CDW	TLV1508IDW
ADS8508IBDWR	CD4067BM96E4	TLC3548CDWG4	TLV1508IDWG4
ADS8517IBDW	CD4067BM96G4	TLC3548CDWR	TLV1543CDW
ADS8517IBDWG4	CD4067BME4	TLC3548CDWRG4	TLV1543CDWG4
ADS8517IDW	CD4097BM	TLC3548IDW	TLV1543CDWR
SN65LBC172A16DW	CD4097BME4	TLC3548IDWR	TLV1543CDWRG4
SN65LBC172A16DWG4	CD4097BMG4	TLC3548IDWRG4	TLV1562IDW
SN65LBC172A16DWR	CD4508BM	TLC3574IDW	TLV1570CDW
SN65LBC174A16DW	CD4508BM96	TLC3574IDWG4	TLV1570CDWR
SN65LBC174A16DWG4	CD4508BME4	TLC3574IDWR	TLV1570IDW
SN65LBC174A16DWR	CD4514BM	TLC3574IDWRG4	TLV1571CDW
SN65LBC174A16DWRG4	CD4514BM96	TLC3578IDW	TLV1571IDW
SN75LBC172A16DW	CD4514BM96E4	TLC3578IDWG4	TLV1571IDWG4
SN75LBC172A16DWG4	CD4514BM96G4	TLC3578IDWR	TLV2543CDW
SN75LBC172A16DWR	CD4515BM	TLC540IDW	TLV2543CDWG4
SN75LBC172A16DWRG4	CD4515BM96	TLC540IDWR	TLV2543CDWR
SN75LBC174A16DW	CD4515BME4	TLC541IDW	TLV2543IDW
SN75LBC174A16DWG4	CD4536BDW	TLC541IDWG4	TLV2543IDWR
SN75LBC174A16DWR	CD4536BDWR	TLC541IDWR	TLV2548CDW
ADS1201U	DAC900U	TLC541IDWRG4	TLV2548CDWG4
ADS1201U/1K	DAC900U/1K	TLC542CDW	TLV2548CDWR
ADS1201UG4	DAC902U	TLC542CDWG4	TLV2548CDWRG4
ADS1211U	DAC902U/1K	TLC542CDWR	TLV2548IDW
ADS1211U/1K	DAC902UG4	TLC542CDWRG4	TLV2548IDWG4
ADS1211UG4	DAC904U	TLC542IDW	TLV2548IDWR
ADS1213U	DAC904U/1K	TLC542IDWG4	TLV2553IDW
ADS1213U/1K	DAC904UG4	TLC542IDWR	TLV2553IDWG4
ADS1213UG4	DAC908U	TLC5628CDW	TLV2553IDWR
ADS800U	DAC908U/1K	TLC5628CDWG4	TLV2553IDWRG4

ADS800U/1K	DAC908UG4	TLC5628CDWR	TLV2556IDW
ADS800UG4	MPC506AU	TLC5628CDWRG4	TLV2556IDWG4
ADS801U	MPC506AU/1K	TLC5628IDW	TLV2556IDWR
ADS801UG4	MPC506AUG4	TLC5628IDWG4	TLV2556IDWRG4
ADS802U	MPC507AU	TLC5628IDWR	TLV5608IDW
ADS802UG4	MPC507AU/1K	TLC5628IDWRG4	TLV5608IDWG4
ADS820U	MPC507AUG4	TLC7135CDW	TLV5608IDWR
ADS820UG4	MPC508AU	TLC7135CDWG4	TLV5610IDW
ADS821U	MPC508AU/1K	TLC7135CDWR	TLV5610IDWG4
ADS821UG4	MPC508AU/1KG4	TLC7135CDWRG4	TLV5610IDWR
ADS8504IBDW	MPC508AUG4	TLC7225CDW	TLV5613CDW
ADS8504IBDWG4	MPC509AU	TLC7225CDWR	TLV5613CDWG4
ADS8504IBDWR	MPC509AU/1K	TLC7225CDWRG4	TLV5613IDW
ADS8508IBDW	MPC509AU/1KG4	TLC7225IDW	TLV5619CDW
ADS8508IBDWG4	MPC509AUG4	TLC7225IDWR	TLV5619CDWG4
ADS8509IBDW	MSP430A012IDW	TLC7226CDW	TLV5619CDWR
ADS8509IBDWG4	MSP430A012IDWR	TLC7226CDWG4	TLV5619IDW
ADS8509IBDWR	MSP430F1222IDW	TLC7226CDWR	TLV5619IDWG4
ADS8509IBDWRG4	MSP430F1222IDWR	TLC7226CDWRG4	TLV5619IDWR
ADS8509IDW	MSP430F122IDW	TLC7226IDW	TLV5619IDWRG4
ADS8509IDWG4	MSP430F122IDWR	TLC7226IDWG4	TLV5628CDW
ADS8509IDWR	MSP430F1232IDW	TLC7226IDWR	TLV5628CDWG4
ADS8509IDWRG4	MSP430F1232IDWR	TLC7226IDWRG4	TLV5628CDWR
BQ2003S	MSP430F123IDW	TLC7628CDW	TLV5628CDWRG4
BQ2003S-N	MSP430F123IDWR	TLC7628CDWG4	TLV5628IDW
BQ2003S-NG4	MSP430U259IDWR	TLC7628CDWR	TLV5628IDWG4
BQ2003S-NTR	MSP430U320IDWR	TLC7628CDWRG4	TLV5628IDWR
BQ2003S-NTRG4	MSP430V245IDWR	TLE2024ACDW	TLV5628IDWRG4
BQ2003SG4	MSP430V319IDWR	TLE2024ACDWG4	TLV5629IDW
BQ2003STR	MSP430V333IDWR	TLE2024ACDWR	TLV5629IDWG4
BQ2003STRG4	MSP430V589IDWR	TLE2024AIDW	TLV5629IDWR
BQ3285ES	PSN9A040A0DW	TLE2024AIDWG4	TLV5630IDW
BQ3285ESTR	PSN9A040A0DWR	TLE2024CDW	TLV5630IDWG4
BQ3285S-SB2	PSN9A040B0DW	TLE2024CDWG4	TLV5631IDW
BQ4285S-SB2	TLC1518IDW	TLE2024CDWR	TLV5631IDWG4
BQ4285S-SB2G4	TLC1541CDW	TLE2024CDWRG4	TLV5631IDWR
BQ4285S-SB2TR	TLC1541CDWG4	TLE2024IDW	TLV5632IDW
BQ4845S-A4	TLC1541IDW	TLE2024IDWG4	TLV5632IDWG4
BQ4845S-A4G4	TLC1541IDWG4	TLE2074ACDW	TLV5632IDWR
BQ4845S-A4N	TLC1541IDWR	TLE2074ACDWG4	TLV5633CDW
BQ4845S-A4NG4	TLC1542CDW	TLE2074AIDW	TLV5633CDWG4
BQ4845S-A4NTR	TLC1542CDWG4	TLE2074AIDWG4	TLV5633IDW
BQ4845S-A4NTRG4	TLC1542CDWR	TLE2074CDW	TLV5639CDW
BQ4845S-A4TR	TLC1542IDW	TLE2074CDWG4	TLV5639CDWG4
BQ4845YS-A4	TLC1542IDWR	TLE2074CDWR	TLV5639IDW
BQ4845YS-A4G4	TLC1542IDWRG4	TLE2074IDW	TLV5711IDW
BQ4845YS-A4N	TLC1550IDW	TLE2074IDWG4	TLV5711IDWG4
BQ4845YS-A4NTR	TLC1550IDWG4	TLE2074IDWR	TPIC6A596DW-P

Group 2 Product Affected:

DRV8803DW-P	DRV8804DWR	UCC28515DW	SN75C1154DWR
MSP430F1101IDWR	DRV8805DW	UCC28515DWR	SN75C1406DW
MSP430F1121IDW	DRV8805DW-P	UCC28516DW	SN75C1406DWR
MSP430F1121IDWR	DRV8805DWR	UCC28516DWR	SN75C1406DWRE4
MSP430F1122IDW	TLC7528CDW	UCC28517DW	SN75C1406DWRG4
MSP430F1122IDWR	TLC7528CDWG4	UCC28517DWR	SN75C185DW
MSP430F112IDWR	TLC7528CDWR	UCC28521DW	SN75C185DWG4
MSP430F1132IDW	TLC7528CDWRG4	UCC28528DW	SN75C185DWR
MSP430F1132IDWR	TLC7528EDW	TLC0838CDW	SN75LBC172ADW
MSP430F2101IDW	TLC7528EDWG4	TLC0838CDWG4	SN75LBC172ADWG4
MSP430F2101IDWR	TLC7528EDWR	TLC0838CDWR	SN75LBC172ADWR
MSP430F2101TDW	TLC7528IDW	TLC0838CDWRG4	SN75LBC174ADW
MSP430F2101TDWR	TLC7528IDWG4	TLC1543CDW	SN75LBC174ADWG4
MSP430F2111IDW	TLC7528IDWR	TLC1543CDWG4	SN75LBC174ADWR
MSP430F2111IDWR	TLC7528IDWRG4	TLC1543CDWR	SN75LBC174ADWRG4
MSP430F2111TDW	UCC28510DW	TLC1543CDWRG4	SN9A040DWR
MSP430F2111TDWR	UCC28511DW	TLC1543IDW	SN9A041DWR
MSP430F2121IDW	UCC28511DWG4	TLC1543IDWG4	TLC0820ACDW
MSP430F2121IDWR	UCC28511DWR	TLC1543IDWR	TLC0820ACDWG4
MSP430F2121TDW	UCC28512DW	TLC1543IDWRG4	TLC0820ACDWR
MSP430F2121TDWR	UCC28512DWG4	SN65LBC172ADW	TLC0820ACDWRG4
MSP430F2131IDW	UCC28512DWR	SN65LBC172ADWG4	TLC0820AIDW
MSP430F2131IDWR	UCC28512DWRG4	SN65LBC172ADWR	TLC0820AIDWG4
MSP430F2131TDW	UCC28513DW	SN65LBC172ADWRG4	TLC0820AIDWR
MSP430F2131TDWR	UCC28513DWG4	SN65LBC174ADW	TLC0820AIDWRG4
PCA9544ADWT	UCC28513DWR	SN65LBC174ADWG4	TLC0838IDW
DRV8803DW	UCC28513DWRG4	SN65LBC174ADWR	TLC0838IDWG4
DRV8803DWR	UCC28514DW	SN65LBC174ADWRG4	TLC0838IDWR
DRV8804DW	UCC28514DWG4	SN75C1154DW	TLC0838IDWRG4
DRV8804DW-P	UCC28514DWR	SN75C1154DWG4	

Qualification Report

**Qualification of Mold 4211880 and Die Attach 4147858
for SOIC DW Packages in TITL and MLA
Approve Date 12-May-2016**

Product Attributes

Attributes	Qual Device: ADS1213U	Qual Device: ADS820U	Qual Device: ADS8504IBDW	Qual Device: MSP430F123IDWR	Qual Device: SN65LBC170DW
Assembly Site	TAI	TAI	TAI	TAI	MLA
Package Family	SOIC	SOIC	SOIC	SOIC	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	OKI	TSMC WF2	DMOS5	TSMC	DFAB
Wafer Fab Process	OKIDALSATFAB_BICMOS	0.60UM-TSMC	50HPA07	0.35UM-TSMC	LBC3S
Attributes	Qual Device: SN65LBC170DW_SSTN	Qual Device: SN74LVC541ADW	Qual Device: SN74LVC541ADW_SSTN	QBS Package Reference: TL494IDR	QBS Package Reference: ULQ2003AQDRQ1
Assembly Site	MLA	MLA	MLA	FMX	FMX
Package Family	SOIC	SOIC	SOIC	SOIC	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V0	UL 94 V-0
Wafer Fab Supplier	DFAB	FFAB	FFAB	SFAB	SFAB
Wafer Fab Process	LBC3S	ASLC10	ASLC10	J11	J11-SLM

- QBS: Qual By Similarity
- Qual Devices qualified at LEVEL1-260C: SN65LBC170DW, SN74LVC541ADW, MSP430F123IDWR, TL494IDR, ULQ200AQDRQ1
- Qual Devices qualified at LEVEL2-260C: ADS1213U, ADS8504IBDW, ADS820U

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: ADS1213U	Qual Device: ADS820U	Qual Device: ADS8504IBDW	Qual Device: MSP430F123IDWR	Qual Device: SN65LBC170DW
AC	Autoclave 121C	96 Hours	1/77/0	-	1/77/0	1/77/0	1/77/0
ED	Electrical Characterization, side by side	Per datasheet parameters	Pass	Pass	Pass	-	Pass
HAST	Biased HAST, 130C/85%RH	192 Hours	-	-	-	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-
HTSL	High Temp Storage Bake 170C	420 Hours	1/77/0	-	1/77/0	1/77/0	1/77/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0	1/77/0	1/77/0	1/77/0

Type	Test Name / Condition	Duration	Qual Device: SN65LBC170 DW_ SSTN	Qual Device: SN74LVC541A DW	Qual Device: SN74LVC541A DW_SSTN	QBS Package Reference: TL494IDR	QBS Package Reference: ULQ2003AQDR Q1_STDLF
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	-	3/231/0
ED	Electrical Characterization, side by side	Per datasheet parameters	Pass	Pass	Pass	-	-
HAST	Biased HAST, 130C/85%RH	192 Hours	-	-	-	3/231/0	3/217/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	3/231/0	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	3/231/0	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	-	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

Qualification Report

SOIC-DW 6 mil thick, 2X12 HD, TIM Leadframe Qualification Approve Date 12-May-2016

Product Attributes

Attributes	Qual Device: SN65LBC170DW_SSROUGH	Qual Device: SN65LBC170DW_STD_AU	Qual Device: SN74LVC541ADW_SSROUGH	Qual Device: SN74LVC541ADW_STD_AU
Assembly Site	TIM	TIM	TIM	TIM
Package Family	SOIC	SOIC	SOIC	SOIC
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	DFAB	DFAB	FFAB	FFAB
Wafer Fab Process	LBC3S	LBC3S	A3C10TLM	A3C10TLM

- QBS: Qual By Similarity

- Qual Devices qualified at LEVEL1-260CG: SN65LBC170DW, SN74LVC541ADW

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: SN65LBC170DW_ SSROUGH	Qual Device: SN65LBC170DW_ STD_AU	Qual Device: SN74LVC541ADW_ SSROUGH	Qual Device: SN74LVC541ADW_ STD_AU
AC	Autoclave 121C	96 Hours	3/231/0	1/77/0	3/231/0	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	1/77/0	3/231/0	3/231/0
LI	Lead Fatigue	Leads	3/66/0	-	-	-
LI	Lead Pull	Leads	3/66/0	-	-	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	-	-	-
SD	Solderability	8 Hours Steam Age, Pb free	3/66/0	-	-	-
TC	Temperature Cycle, - 65/150C	500 Cycles	3/231/0	1/77/0	3/231/0	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	PCNAmericasContact@list.ti.com
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Asia Pacific	PCNAsiaContact@list.ti.com
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