

PCN Number:	20160606003A		PCN Date:	06/24/2016													
Title:	Qualify New Assembly Material set for Selected Device(s)																
Customer Contact:	PCN Manager	Dept:	Quality Services														
Proposed 1st Ship Date:	09/24/2016	Estimated Sample Availability:	Date provided at sample request														
Change Type:																	
<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												
PCN Details																	
Description of Change:																	
Revision A is to announce the <u>addition</u> of new devices that were not included on the original PCN notification. Please refer to the Product affected section for the additional devices. The expected first shipment date for these new devices will be 90 days from this notice for these newly added devices only. Devices 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>Wire (mils)</td> <td>0.80, 0.96, 1.15mils Au</td> <td>0.96mils Cu</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	Wire (mils)	0.80, 0.96, 1.15mils Au	0.96mils Cu	Mount compound	4042500	4147858	Mold compound	4205694	4211880
Material	Current	Proposed															
Wire (mils)	0.80, 0.96, 1.15mils Au	0.96mils Cu															
Mount compound	4042500	4147858															
Mold compound	4205694	4211880															
Reason for Change:																	
Continuity of supply. 1) To align with world technology trends and assembly materials with enhanced mechanical and electrical 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																	
<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 TI ECO website .														
Changes to product identification resulting from this PCN:																	
None.																	
Product Affected:																	

74AC11240DW	MAX208IDW	SN74LVC646ADWG4	SN74ABT8245DWG4
74AC11244DW	SN74ABT827DWR	SN74LVC652ADW	SN74ABT8245DWR
74AC11244DWG4	SN74ABT833DW	MAX208IDWG4	SN74ABT827DW
74AC11244DWR	SN74ABT841ADW	MAX208IDWR	SN74LVC652ADWE4
74AC11245DW	SN74ABT841ADWG4	MAX208IDWRG4	SN74LVC652ADWR
74AC11245DWG4	SN74ABT841ADWR	MAX211CDW	SN74LVC821ADW
74AC11245DWR	SN74ABT841ADWRE4	MAX211CDWG4	SN74LVC821ADWG4
74ACT11240DW	SN74ABT843DW	MAX211CDWR	SN74LVC821ADWR
74ACT11240DWR	SN74ABT843DWR	MAX211IDW	SN74LVC823ADW
74ACT11240DWRG4	SN74ABT853DW	MAX211IDWG4	SN74LVC827ADW
74ACT11244DW	SN74ABT853DWR	MAX211IDWR	SN74LVC827ADWG4
74ACT11244DWG4	SN74ABT8543DW	MAX213CDW	SN74LVC827ADWR
74ACT11244DWR	SN74ABT861DW	MAX213CDWR	SN74LVC828ADW
74ACT11245DW	SN74ABT863DW	MAX213IDWR	SN74LVC828ADWR
74ACT11245DWE4	SN74ABT863DWR	MAX232DW	SN74LVC841ADW
74ACT11245DWR	SN74ABT8646DW	MAX232DWE4	SN74LVC861ADW
74ACT11373DW	SN74ABT8652DW	MAX232DWG4	SN74LVC863ADW
74ACT11373DWG4	SN74ABTH25245DW	MAX232DWR	SN74LVC8T245DWR
74ACT11373DWR	SN74ABTH25245DWE4	MAX232DWRE4	SN74LVC8T245DWRG4
74ACT11374DW	SN74ABTH25245DWG4	MAX232DWRG4	SN74LVCC3245ADW
74ACT11374DWG4	SN74ABTH25245DWR	MAX232ECDW	SN74LVCC3245ADWE4
74ACT11374DWR	SN74ALS29821DW	MAX232ECDWR	SN74LVCC3245ADWG4
74ACT11623DWR	SN74ALS29827DW	MAX232ECDWRE4	SN74LVCC3245ADWR
ADS1250U	SN74ALS29827DWG4	MAX232ECDWRG4	SN74LVCC3245ADWRE4
ADS1250U/1K	SN74ALS29863DW	MAX232EIDW	SN74LVCC3245ADWRG4
ADS1250U/1KG4	SN74ALS29863DWE4	MAX232EIDWG4	SN74LVCC4245ADW
ADS1250UG4	SN74ALS575ADW	MAX232EIDWR	SN74LVCC4245ADWE4
BQ2005S	SN74ALS577ADW	MAX232EIDWRG4	SN74LVCC4245ADWG4
BQ2005SG4	SN74ALS577ADWR	MAX232IDW	SN74LVCC4245ADWR
BQ2005STR	SN74ALS646ADW	MAX232IDWG4	SN74LVCC4245ADWRG4
BQ2005STRG4	SN74ALS646ADWE4	MAX232IDWR	SN74LVT543DW
BQ4802LYDW	SN74ALS646ADWR	MAX232IDWRE4	SN74LVTH2952DW
BQ4802LYDWG4	SN74ALS648ADW	MAX232IDWRG4	SN74LVTH543DW
BQ4802LYDWR	SN74ALS652A-1DW	MAX3232CDW	SN74LVTH543DWR
BQ4802LYDWRG4	SN74ALS652A-1DWG4	MAX3232CDWG4	SN74LVTH646DW
BQ4802YDW	SN74ALS652ADW	MAX3232CDWR	SN74LVTH646DWG4
BQ4802YDWG4	SN74ALS652ADWR	MAX3232CDWRE4	SN74LVTH652DW
BQ4802YDWR	SN74ALS652ADWRE4	MAX3232CDWRG4	SN74TVC3010DW
BQ4802YDWRG4	SN74ALS653DW	MAX3232ECDW	SN74TVC3010DWR
CD74AC646M	SN74ALS653DWE4	MAX3232ECDWG4	SN75160BDW
CD74AC646M96	SN74ALS653DWR	MAX3232ECDWR	SN75160BDWE4
CD74AC646MG4	SN74ALS654DW	MAX3232EIDW	SN75160BDWG4
CD74AC652M	SN74ALS654DWR	MAX3232EIDWG4	SN75160BDWR

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CD74ACT646M	SN74ALS666DWE4	MAX3232IDW	SN75160BDWRG4
CD74ACT646M96	SN74ALS666DWG4	MAX3232IDWE4	SN75161BDW
CD74ACT652M	SN74ALS667DW	MAX3232IDWG4	SN75161BDWG4
CD74ACT652M96	SN74ALS841DW	MAX3232IDWR	SN75161BDWR
CD74FCT843AM	SN74ALS843DW	MAX3232IDWRE4	SN75161BDWRE4
CD74HC154M	SN74ALS843DWR	MAX3232IDWRG4	SN75161BDWRG4
CD74HC154M96	SN74ALS867ADW	MAX3237ECDW	SN75162BDW
CD74HC154M96E4	SN74ALS869DW	MAX3237ECDWG4	SN75162BDWE4
CD74HC154M96G4	SN74ALS869DWE4	MAX3237ECDWR	SN75162BDWG4
CD74HC154ME4	SN74ALS873BDW	MAX3237EIDW	SN75162BDWR
CD74HC154MG4	SN74ALS873BDWR	MAX3238ECDWR	SN75196DW
CD74HC4059M96	SN74ALS874BDW	MAX3238EIDW	SN75196DWG4
CD74HC4059M96E4	SN74ALS874BDWR	MAX3238EIDWR	SN75196DWR
CD74HC4059M96G4	SN74ALS874BDWRE4	MAX3243CDW	SN75ALS056DW
CD74HC4067M	SN74ALS992DW	MAX3243CDWE4	SN75ALS056DWR
CD74HC4067M96	SN74ALS994DW	MAX3243CDWG4	SN75ALS057DW
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CD74HC4514M96	SN74AS867DWE4	MAX3243EIDWR	SN75ALS161DWG4
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CD74HC4514MG4	SN74AS874DW	MAX3243IDW	SN75ALS161DWRG4
CD74HC4515M	SN74AS885DW	MAX3243IDWG4	SN75ALS162DW
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CD74HC4515MG4	SN74BCT25244DWR	MAX3243IDWRG4	SN75ALS162DWR
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CD74HC595DWR	SN74BCT25245DWG4	PCA9534ADWR	SN75ALS164DW
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CDC351DWG4	SN74BCT8244ADW	PCA9546ADWR	SN75ALS174ADWR
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CDC351DWRG4	SN74BCT8245ADW	PCA9548ADWG4	SN75C3232DWR
CDC351IDW	SN74BCT8245ADWR	PCA9548ADWR	SN75C3232EDW
CDC351IDWG4	SN74BCT8373ADW	PCA9554ADW	SN75C3232EDWR
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CY74FCT163CTSOC	SN74CBT3384ADWG4	PCF8574ADWR	SN75LBC241DW
CY74FCT191ATSOC	SN74CBT3384ADWR	PCF8574DW	SN75LBC241DWG4
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CY74FCT191CTSOCE4	SN74CBT3861DW	PCF8574DWR	TB5D1MDWR
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CY74FCT257CTSOC	SN74CBT3861DWRE4	PCF8575CDW	TB5D2HDWR
CY74FCT399ATSOC	SN74CBT6800ADW	PCF8575CDWE4	TB5R1DW
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CY74FCT646TSOC	SN74CBTLV3383DWE4	SN10KHT5574DW	THS5651AIDWG4
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CY74FCT821BTSOC	SN74F1016DWG4	SN64BCT757DWG4	TL7770-12CDWR
CY74FCT821BTSOCE4	SN74F1016DWR	SN64BCT757DWR	TL7770-5CDW
CY74FCT821CTSOC	SN74F543DW	SN64BCT757DWRE4	TL7770-5CDWR
CY74FCT821CTSOCT	SN74F543DWG4	SN65C3232DW	TL7770-5IDW
CY74FCT823ATSOC	SN74F543DWR	SN65C3232DWR	TL7770-5IDWG4
CY74FCT823CTSOC	SN74F657DW	SN65C3232EDW	TL7770-5IDWR
CY74FCT825ATSOC	SN74GTLPH306DW	SN65C3232EDWR	TL7770-5IDWRE4
CY74FCT827ATSOC	SN74GTLPH306DWR	SN65C3238DWR	TL7770-5IDWRG4
CY74FCT827ATSOCT	SN74HC590ADW	SN65C3238EDWR	TLC5602CDW
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CY74FCT827CTSOCT	SN74HC590ADWR	SN65C3243DWE4	TLC5602CDWR
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GD75323DW	SN74HC594DWRG4	SN65LBC174DWG4	TRS202ECDWR
GD75323DWG4	SN74HC595DW	SN65LBC174DWR	TRS202EIDW
GD75323DWR	SN74HC595DWG4	SN65LBC175DW	TRS202EIDWR
LT1014DDW	SN74HC595DWR	SN65LBC175DWG4	TRS208CDWR
LT1014DDWE4	SN74HC595DWRE4	SN65LBC175DWR	TRS208IDWR
LT1014DDWG4	SN74HC595DWRG4	SN74ABT2827DW	TRS213IDWR
LT1014DDWR	SN74HC646DW	SN74ABT2827DWR	TRS232DW
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LT1014DDWRG4	SN74HC646DWR	SN74ABT2952ADWR	TRS232ECDW
LT1014DIDW	SN74HC652DW	SN74ABT5402ADW	TRS232ECDWR
LT1014DIDWG4	SN74HC652DWG4	SN74ABT5402ADWG4	TRS232EIDWR
LT1014DIDWR	SN74HC652DWR	SN74ABT5402ADWR	TRS3232CDWR
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LT1054IDWG4	SN74LS652DW	SN74ABT646ADWR	TRS3238ECDWR
LT1054IDWR	SN74LS673DW	SN74ABT646DW	TRS3238EIDWR
LT1054IDWRG4	SN74LS674DW	SN74ABT646DWR	TRS3243ECDW
MAX202CDW	SN74LS674DWG4	SN74ABT651DW	TRS3243ECDWG4
MAX202CDWE4	SN74LV8151DW	SN74ABT651DWR	TRS3243ECDWR
MAX202CDWG4	SN74LV8151DWR	SN74ABT652ADW	TRS3243EIDW

MAX202CDWR	SN74LVC2952ADW	SN74ABT652ADWR	TRS3243EIDWR
MAX202CDWRE4	SN74LVC4245ADW	SN74ABT652DW	TRSF3232ECDWR
MAX202IDW	SN74LVC4245ADWE4	SN74ABT657ADW	TRSF3232EIDW
MAX202IDWG4	SN74LVC4245ADWG4	SN74ABT657ADWR	TRSF3232EIDWG4
MAX202IDWR	SN74LVC4245ADWR	SN74ABT821ADW	TRSF3232EIDWR
MAX207CDW	SN74LVC4245ADWRE4	SN74ABT821ADWG4	TRSF3232IDWR
MAX207CDWR	SN74LVC4245ADWRG4	SN74ABT821ADWR	TRSF3238EIDWR
MAX207IDW	SN74LVC543ADW	SN74ABT821ADWRG4	UCC25710DW
MAX207IDWR	SN74LVC543ADWG4	SN74ABT823DW	UCC25710DWR
MAX208CDW	SN74LVC543ADWR	SN74ABT823DWR	
MAX208CDWR	SN74LVC646ADW	SN74ABT8245DW	

Qualification Report

**Universal BOM 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: MSP430F123ID WR	Qual Device: SN65LBC170D W
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

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
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com