



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20120223003A
Add Cu as Alternative Bond Wire Metal for selected devices
Change Notification / Sample Request

Date: 12/4/2013
To: MOUSER PCN

Dear Customer:

The purpose of this version A is to retract devices from this change notification. The retraction is for select devices that were inadvertently included and are not affected by this change. We apologize for any inconvenience this may have caused.

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
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20120223003A
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
TLC555IP	null
TLC555IPE4	null

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

PCN Number:	20120223003A	PCN Date:	12/04/2013
Title:	Add Cu as Alternative Bond Wire Metal for Select Devices		
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037
		Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>		<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>		<input type="checkbox"/>	Test Process
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

Revision A is to remove select devices in the Product Affected: 0.96 Mil Cu Bond Wire Option (with ~~strikerthrough~~) and highlighted in yellow. These devices were inadvertently added and not affected by this change.

Qualification of Cu bond wire option for select devices in the BGA, TSSOP, QFN, QFP and PDIP packages. See table below.

	Current Bond Wire (Au)	Additional Bond wire option (Cu)
Wire diameter (mils)	0.7, 0.8, 0.9, 0.96, 1.0, 1.15, 1.2, 1.31, 1.97, 1.98,	0.8, 0.96, 1.3, 2.0 Mil Dia.

① **The devices in the product Affected list (grouped by wire diameter) are being qualified by similarity. These package qualifications and devices in these package families have been covered in prior PCNs, primarily PCN 20101215001 and PCN 20110919000. The purpose of this PCN is to convert additional devices in the same package families to Cu wire.**

A summary of the Reference Qualifications are shown in the table below.

Reference Qualification #	Cu Wire Diameter / Pkg Type
1	0.8 mils / TSSOP
2	0.96 mils / TSSOP
3	1.3 mils/ TSSOP
4	2.0 mils / TSSOP
5	0.8 mils / QFP
6	0.96 mils / QFP
7	0.8 mils / QFN
8	0.96 mils / QFN
9	1.3 mils / QFN
10	2.0 mils / QFN
11	0.8 mils / BGA
12	0.96 mils / BGA
13	0.96 mils / PDIP

Reason for Change:			
1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties.			
2) Maximize flexibility within our Assembly/Test production sites.			
3) Cu is easier to obtain and stock.			
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):			
This change is not expected to have any negative impact on the form, fit, function or reliability of the package.			
Changes to product identification resulting from this PCN:			
None.			
Product Affected: 0.8 Mil Cu Bond Wire Option			
74ALVC164245GRDR	SN74ALVC16244AZRDR	SN74LV4320AGKFR	SN74LVTH162373KR
74ALVC164245ZQLR	SN74ALVC164245KR	SN74LV4320AZKFR	SN74LVTH162374KR
74ALVC164245ZRDR	SN74ALVC16834ZQLR	SN74LV574AZQNR	SN74LVTH16244AGQLR
74ALVCH162373ZQLR	SN74ALVCH162373KR	SN74LVC139AZQNR	SN74LVTH16244AGRDR
74ALVCH16244GRDR	SN74ALVCH16244KR	SN74LVC162244AGQLR	SN74LVTH16244AZQLR
74ALVCH16244ZQLR	SN74ALVCH16245KR	SN74LVC162244AGRDR	SN74LVTH16244AZRDR
74ALVCH16244ZRDR	SN74ALVCH16373KR	SN74LVC162244AZQLR	SN74LVTH16245AGQLR
74ALVCH16245ZRDR	SN74ALVCH16374KR	SN74LVC16244AGQLR	SN74LVTH16245AGRDR
74ALVCH16373GRDR	SN74ALVCH16501KR	SN74LVC16244AGRDR	SN74LVTH16245AZQLR
74ALVCH16373ZQLR	SN74ALVCH32244KR	SN74LVC16244AZQLR	SN74LVTH16245AZRDR
74ALVCH16373ZRDR	SN74ALVCH32245KR	SN74LVC16244AZRDR	SN74LVTH16373GQLR
74ALVCH16374ZQLR	SN74ALVCH32374KR	SN74LVC16245AGQLR	SN74LVTH16373GRDR
74ALVCH16501ZQLR	SN74ALVCH32501KR	SN74LVC16245AGRDR	SN74LVTH16373ZQLR
74ALVCH32244ZKER	SN74ALVCH32973KR	SN74LVC16245AZQLR	SN74LVTH16373ZRDR
74ALVCH32245ZKER	SN74ALVCH373ZQNR	SN74LVC16245AZRDR	SN74LVTH16374GQLR
74ALVCH32374ZKER	SN74ALVTH16245KR	SN74LVC16373AGQLR	SN74LVTH16374GRDR
74ALVCH32501ZKFR	SN74ALVTH16373KR	SN74LVC16373AZQLR	SN74LVTH16500GQLR
74ALVCH32973ZKER	SN74ALVTH16374KR	SN74LVC16373AZRDR	SN74LVTH322374KR
74ALVCHR16245ZQLR	SN74ALVTH32244KR	SN74LVC16374AGRDR	SN74LVTH32244GKER
74ALVTH16244ZQLR	SN74ALVTH32373KR	SN74LVC16374AZQLR	SN74LVTH32244ZKER
74ALVTH16245ZQLR	SN74ALVTH32374KR	SN74LVC16374AZRDR	SN74LVTH32245GKER
74ALVTH16373ZQLR	SN74ALVTHR16245KR	SN74LVC32244GKER	SN74LVTH32245ZKER
74ALVTH16374ZQLR	SN74AUC16244GQLR	SN74LVC32244ZKER	SN74LVTH32373GKER
74ALVTH32244ZKER	SN74AUC16244ZQLR	SN74LVC32245GKER	SN74LVTH32373ZKER
74ALVTH32373ZKER	SN74AUC16245GQLR	SN74LVC32245ZKER	SN74LVTH32374GKER
74ALVTH32374ZKER	SN74AUC16245ZQLR	SN74LVC32373AGKER	SN74LVTH32374ZKER
74ALVTHR16245ZQLR	SN74AUC16373GQLR	SN74LVC32373AZKER	SN74VMEH22501AGQLR
74AVC16T245ZQLR-P	SN74AUC16373ZQLR	SN74LVC32374AGKER	SN74VMEH22501AZQLR
74AVCA164245ZQLR	SN74AUC245ZQNR	SN74LVC32374AZKER	SN74VMEH22501GQLR
74AVCAH164245ZQLR	SN74AUC32244GKER	SN74LVC373AGQNR	SN74VMEH22501ZQLR
74AVCB164245GRDR	SN74AUC32244ZKER	SN74LVC373AZQNR	TAS5534DGG
74AVCB164245ZQLR	SN74AUC32245GKER	SN74LVC573AGQNR	TAS5534DGGR
74AVCB164245ZRDR	SN74AUC32245ZKER	SN74LVC573AZQNR	TAS5538DGG
74AVCB324245ZKER	SN74AUC32374GKER	SN74LVC574AZQNR	TAS5538DGGR
74AVCBH164245ZQLR	SN74AUC32374ZKER	SN74LVCH16244AGQLR	TAS5701PAP-P
74AVCBH324245ZKER	SN74AUCH16244GQLR	SN74LVCH16244AGRDR	TAS5701PAP-PG4
74AVCH16T245ZQLR	SN74AUCH16244ZQLR	SN74LVCH16244AZQLR	TAS5704PAP-P
74LVCH322244AZKER	SN74AUCH16374GQLR	SN74LVCH16244AZRDR	TAS5704PAP-PG4
74LVCHR16245AGRDR	SN74AUCH16374ZQLR	SN74LVCH16245AGQLR	TAS5706PAP-P
74LVCHR16245AZQLR	SN74AUCH32244GKER	SN74LVCH16245AGRDR	TCA6404ZXUR
74LVCHR16245AZRDR	SN74AUCH32244ZKER	SN74LVCH16245AZRDR	TLV320AIC10IGQER
74LVCHR32245AZKER	SN74AUCH32374GKER	SN74LVCH16373AZQLR	TLV320AIC1103GQER
74LVCR162245ZQLR	SN74AUCH32374ZKER	SN74LVCH16373AZRDR	TLV320AIC1103ZQE
74LVTH162244GRDR	SN74AVC16244GQLR	SN74LVCH16374AGQLR	TLV320AIC1103ZQER

74LVTH162244ZQLR	SN74AVC16244ZQLR	SN74LVCH16374AZQLR	TLV320AIC1110GQER
74LVTH162244ZRDR	SN74AVC16373ZQLR	SN74LVCH16543AGQLR	TLV320AIC1110ZQER
74LVTH162245GRDR	SN74AVC16374GQLR	SN74LVCH322244AKR	TLV320AIC3012IRHBT
74LVTH162245ZQLR	SN74AVC16374ZQLR	SN74LVCH32244AGKER	TLV320AIC3016IRHBR
74LVTH162245ZRDR	SN74AVC16T245GQLR	SN74LVCH32244AZKER	TLV320AIC3016IRHBT
74LVTH162373ZQLR	SN74AVC16T245ZQLR	SN74LVCH32245AGKER	TLV320DAC33BNIZQCT
74LVTH162374ZQLR	SN74AVC20T245ZQLR	SN74LVCH32245AZKER	TLV320DAC33NIZQC
74LVTH162374ZRDR	SN74AVC32374GKER	SN74LVCH32373AGKER	UCD90120ARGCR
74LVTH322374ZKER	SN74AVCA164245KR	SN74LVCH32373AZKER	UCD90120ARGCT
AVC16T245ZQLR-D	SN74AVCAH164245KR	SN74LVCH32374AGKER	UCD90124ARGCR
AVC20T245ZQLR-D	SN74AVCB164245KR	SN74LVCH32374AZKER	UCD90124ARGCT
BQ500110RGZR	SN74AVCB324245KR	SN74LVCHR16245AKR	UCD90124NPFPC
BQ500110RGZT	SN74AVCBH164245KR	SN74LVCHR32245AKR	UCD90124NPFGR
BQ500210RGZR	SN74AVCBH324245KR	SN74LVCR162245KR	UCD90160RGCR
BQ500210RGZT	SN74CB3Q16211GQLR	SN74LVCR16245AZQLR	UCD90160RGCT
BQ500211RGZR	SN74CB3Q16211ZQLR	SN74LVCR2245AZQNR	UCD9090RGZR
BQ500211RGZT	SN74CB3Q32245GKER	SN74LVCR32245AGKER	UCD9090RGZT
BQ50050W100RGZR	SN74CB3Q32245ZKER	SN74LVCR32245AZKER	UCD90910-VRGCR
BQ50050W100RGZT	SN74CB3Q3244ZQNR	SN74LVCR32240AGKER	UCD90910-VRGCT
CBTLV16211CZRDR-P	SN74CB3Q3245GQNR	SN74LVCR32240AZKER	UCD9222RGZR
CDCE925R08PWR	SN74CB3Q3245ZQNR	SN74LVCR32244AGKER	UCD9222RGZT
CDCE949RGER	SN74CB3T16211GQLR	SN74LVCR32244AZKER	UCD9244NRGCR
CDCLVC1102PW	SN74CB3T16211ZQLR	SN74LVCR32245AGKER	UCD9244NRGCT
CDCLVC1102PWR	SN74CB3T16212ZQLR	SN74LVCR32245AZKER	UCD9244RGCR
CDCLVC1103PW	SN74CBT16211AZQLR	SN74LVT162244AGQLR	UCD9244RGCT
CDCLVC1103PWR	SN74CBT16212AZQLR	SN74LVT162244AGRDR	UCD9246ERGCR
CDCLVC1104PW	SN74CBT32245GKER	SN74LVT162244AZQLR	UCD9246ERGCT
CDCLVC1104PWR	SN74CBT32245ZKER	SN74LVT162244AZRDR	UCD9246FRGCR
CDCLVC1106PW	SN74CBT3245AZQNR	SN74LVT162245AGQLR	UCD9246FRGCT
CDCLVC1106PWR	SN74CBTK32245GKER	SN74LVT162245AZRDR	UCD9248EPFC
CDCLVC1108PW	SN74CBTK32245ZKER	SN74LVT16244BGQLR	UCD9248EPFGR
CDCLVC1108PWR	SN74GTLP2033ZQLR	SN74LVT16244BZQLR	VSP5611RSHR
CDCLVC1110PW	SN74GTLP2034ZQLR	SN74LVT16244BZRDR	VSP5612RSHR
CDCLVC1110PWR	SN74GTLP22033ZQLR	SN74LVT16245BGQLR	VSP5620RSLR
CDCLVC1112PW	SN74GTLP22034ZQLR	SN74LVT16245BGRDR	VSP5621RSLR
CDCLVC1112PWR	SN74GTLPH1645GQLR	SN74LVT16245BZQLR	VSP5622RSLR
DRV2603ZQVR	SN74GTLPH1645ZQLR	SN74LVT16245BZRDR	VSP6300AZSPR
DRV2603ZQVT	SN74GTLPH16927ZQLR	SN74LVT244BGQNR	VSP6300ZRCR
PCM3070IRHBT	SN74GTLPH3245GKFR	SN74LVT244BZQNR	VSP6300ZSPR
PDRV2603ZQVR	SN74GTLPH3245ZKFR	SN74LVT245BZQNR	VSP6826ZRCR
PVSP6244BZRDR	SN74GTLPH32912ZKFR	SN74LVT32244GKER	VSP8244AZRDR
SN74ALVC16244AGQLR	SN74GTLPH32916ZKFR	SN74LVT32244ZKER	VSP9800DAR
SN74ALVC16244AGRDR	SN74GTLPH32945KR	SN74LVTH162244KR	
SN74ALVC16244AZQLR	SN74GTLPH32945ZKER	SN74LVTH162245KR	

Product Affected: 0.96 Mil Cu Bond Wire Option			
74AC11000N	CD74HC4543E	SN74AHC8541N	SN74LV4052AN
74AC11000NE4	CD74HC4543EE4	SN74AHC8541N-P	SN74LV4052ANE4
74AC11004N	CD74HC533E	SN74AHC8541N-P2	SN74LV4053AN
74AC11004NE4	CD74HC533EE4	SN74AHC86N	SN74LV4053ANE4
74AC11008N	CD74HC534E	SN74AHC86NE4	SN74LV4066AN
74AC11008NE4	CD74HC534EE4	SN74AHCT00N	SN74LV4066ANE4
74AC11032N	CD74HC540E	SN74AHCT00NE4	SN74LV8144N-P
74AC11032NE4	CD74HC540EE4	SN74AHCT02N	SN74LV8144N-P2
74AC11074N	CD74HC541E	SN74AHCT02NE4	SN74LV81526AN-P
74AC11074NE4	CD74HC541EE4	SN74AHCT04N	SN74LV8153N
74AC11086N	CD74HC563E	SN74AHCT04NE4	SN74LV8153N-P
74AC11086NE4	CD74HC563EE4	SN74AHCT08N	SN74LV8153NE4
74AC11138N	CD74HC564E	SN74AHCT08NE4	SN74LV8153PW
74AC11138NE4	CD74HC564EE4	SN74AHCT123AN	SN74LV8153PWE4

74AC11257N	CD74HC573E	SN74AHCT123ANE4	SN74LV8153PWG4
74AC11257NE4	CD74HC573EE4	SN74AHCT125N	SN74LV8153PWR
74ACT11000N	CD74HC574E	SN74AHCT125NE4	SN74LV8153PWRE4
74ACT11000NE4	CD74HC574EE4	SN74AHCT126N	SN74LV8153PWRG4
74ACT11004N	CD74HC595E	SN74AHCT126NE4	SN74LV8154N
74ACT11004NE4	CD74HC595EE4	SN74AHCT132N	SN74LV8154N-P
74ACT11008N	CD74HC597E	SN74AHCT132NE4	SN74LV8154N-P2
74ACT11008NE4	CD74HC597EE4	SN74AHCT138N	SN74LV8154NE4
74ACT11030N	CD74HC640E	SN74AHCT138NE4	SN74LV8156N-P
74ACT11030NE4	CD74HC640EE4	SN74AHCT139N	SN74LV8158P-P
74ACT11032N	CD74HC670E	SN74AHCT139NE4	SN74LV8158P-P2
74ACT11032NE4	CD74HC670EE4	SN74AHCT14N	SN74LV8159N-P
74ACT11074N	CD74HC688E	SN74AHCT14NE4	SN74LV8159N-P2
74ACT11074NE4	CD74HC688EE4	SN74AHCT157N	SN74LV8160N-P
74AVC4T245RGYRG4	CD74HC7046AE	SN74AHCT157NE4	SN74LV8160N-P2
74AVCH4T245RGYRG4	CD74HC7046AEE4	SN74AHCT174N	SN74LV8161N-P
74CBTLV16292GR-P	CD74HC7266E	SN74AHCT174NE4	SN74LV8161N-P2
74CBTLV3257RGYRG4	CD74HC7266EE4	SN74AHCT240N	SN74LV8161PW-P
74LVCE161284DGGRE4	CD74HC73E	SN74AHCT240NE4	SN74LVC244AN
74LVCE161284DGGRG4	CD74HC73EE4	SN74AHCT244N	SN74LVC244ANE4
ADS1148IRHBR	CD74HC74E	SN74AHCT244NE4	SN74LVC244APWR
ADS1148IRHBT	CD74HC74EE4	SN74AHCT245N	SN74LVC244APWRE4
ADS1191IPBS	CD74HC75E	SN74AHCT245NE4	SN74LVC244APWRG4
ADS1191IPBSR	CD74HC75EE4	SN74AHCT273N	SN74LVC245AN
ADS1191IRSMR	CD74HC85E	SN74AHCT273NE4	SN74LVC245ANE4
ADS1191IRSMT	CD74HC85EE4	SN74AHCT32N	SN74LVC3G14P-P
ADS1192IPBS	CD74HC86E	SN74AHCT32NE4	SN74LVC3G14P-P2
ADS1192IPBSR	CD74HC86EE4	SN74AHCT373N	SN74LVC3G17P-P
ADS1192IRSMR	CD74HC93E	SN74AHCT373NE4	SN74LVC3G17P-P2
ADS1192IRSMT	CD74HC93EE4	SN74AHCT374N	SN74LVC86APW-P
ADS1194CPAG	CD74HCT00E	SN74AHCT374NE4	SN74LVCE161284DGGR
ADS1194CPAGR	CD74HCT00EE4	SN74AHCT540N	SN74LVCH245AZXYR
ADS1196CPAG	CD74HCT02E	SN74AHCT540NE4	SN74S00N
ADS1196CPAGR	CD74HCT02EE4	SN74AHCT541N	SN74S00NE4
ADS1198CPAG	CD74HCT03E	SN74AHCT541NE4	SN74S132N
ADS1198CPAGR	CD74HCT03EE4	SN74AHCT573N	SN74S132NE4
ADS1248IRHBR	CD74HCT04E	SN74AHCT573NE4	SN74S151N
ADS1248IRHBT	CD74HCT04EE4	SN74AHCT574N	SN74S151NE4
ADS1291IPBS	CD74HCT08E	SN74AHCT574NE4	SN74S157N
ADS1291IPBSR	CD74HCT08EE4	SN74AHCT594N	SN74S157NE4
ADS1291IRSMR	CD74HCT107E	SN74AHCT594NE4	SN74S174N
ADS1291IRSMT	CD74HCT107EE4	SN74AHCT595N	SN74S174NE4
ADS1292IPBS	CD74HCT109E	SN74AHCT595NE4	SN74S257N
ADS1292IPBSR	CD74HCT109EE4	SN74AHCT74N	SN74S257NE4
ADS1292IRSMR	CD74HCT10E	SN74AHCT74NE4	SN74S280N
ADS1292IRSMT	CD74HCT10EE4	SN74AHCT86N	SN74S280NE4
ADS1292RIPBS	CD74HCT112E	SN74AHCT86NE4	SN74S373N
ADS1292RIPBSR	CD74HCT112EE4	SN74AHCU04N	SN74S373NE4
ADS1294IPAG	CD74HCT11E	SN74AHCU04NE4	SN74S86N
ADS1294IPAGR	CD74HCT11EE4	SN74ALS1244AN	SN74S86NE4
ADS1296IPAG	CD74HCT123E	SN74ALS1244ANE4	SN75160BN
ADS1296IPAGR	CD74HCT123E-P	SN74ALS1245AN	SN75160BNE4
ADS1299CPAGR	CD74HCT123EE4	SN74ALS1245ANE4	SN75161BN
ADS7223SRHBR	CD74HCT125E	SN74ALS1645AN	SN75161BNE4
ADS7223SRHBT	CD74HCT125EE4	SN74ALS1645ANE4	SN75970B2DGG
ADS7852Y/250	CD74HCT126E	SN74ALS240A-1N	SN75970B2DGGG4
ADS7852Y/250G4	CD74HCT126EE4	SN74ALS240A-1NE4	SN75971B2DGG
ADS7852Y/2K	CD74HCT132E	SN74ALS240AN	SN75971B2DGGG4
ADS7852Y/2KG4	CD74HCT132EE4	SN74ALS240ANE4	SN75976A1DGG
ADS7852YB/250	CD74HCT137E	SN74ALS241CN	SN75976A1DGGG4

ADS7852YB/250G4	CD74HCT137EE4	SN74ALS241CNE4	SN75976A1DGGR
ADS7852YB/2K	CD74HCT138E	SN74ALS243AN	SN75976A1DGGRG4
ADS7852YB/2KG4	CD74HCT138EE4	SN74ALS243ANE4	SN75976A2DGG
ADS7862Y/250	CD74HCT139E	SN74ALS244C-1N	SN75976A2DGGG4
ADS7862Y/250G4	CD74HCT139EE4	SN74ALS244C-1NE4	SN75976A2DGGR
ADS7862Y/2K	CD74HCT147E	SN74ALS244CN	SN75976A2DGGRG4
ADS7862Y/2KG4	CD74HCT147EE4	SN74ALS244CNE4	SN75ALS160N
ADS7862YB/250	CD74HCT14E	SN74ALS245A-1N	SN75ALS160NE4
ADS7862YB/250G4	CD74HCT14EE4	SN74ALS245A-1NE4	SN75ALS161N
ADS7862YB/2K	CD74HCT151E	SN74ALS245AN	SN75ALS161NE4
ADS7862YB/2KG4	CD74HCT151EE4	SN74ALS245ANE4	SN75C1167N
ADS7864Y/250	CD74HCT153E	SN74ALS273N	SN75C1167NE4
ADS7864Y/250G4	CD74HCT153EE4	SN74ALS273NE4	SN75C1168N
ADS7864Y/2K	CD74HCT157E	SN74ALS299N	SN75C1168NE4
ADS7864Y/2KG4	CD74HCT157EE4	SN74ALS299NE4	SN75C23243DGGR
ADS7864YB/250	CD74HCT158E	SN74ALS30AN	SN75C23243DGGRE4
ADS7864YB/250G4	CD74HCT158EE4	SN74ALS30ANE4	SN75C23243DGGRG4
ADS7864YB/2K	CD74HCT161E	SN74ALS323N	SN75HVD05P
ADS7864YB/2KG4	CD74HCT161EE4	SN74ALS323NE4	SN75HVD05PE4
ADS7945SRTER	CD74HCT163E	SN74ALS33AN	SN75HVD06P
ADS7945SRTET	CD74HCT163EE4	SN74ALS33ANE4	SN75HVD06PE4
ADS7946SRTER	CD74HCT164E	SN74ALS373AN	SN75HVD07P
ADS7946SRTET	CD74HCT164EE4	SN74ALS373ANE4	SN75HVD07PE4
ADS7950SDBBT	CD74HCT165E	SN74ALS374AN	SN75HVD08P
ADS7950SDBBTG4	CD74HCT165EE4	SN74ALS374ANE4	SN75HVD08PE4
ADS7950SDBBTR	CD74HCT166E	SN74ALS518N	SN75HVD10P
ADS7950SDBBTRG4	CD74HCT166EE4	SN74ALS518NE4	SN75HVD10PE4
ADS7950SBRGER	CD74HCT173E	SN74ALS520N	SN75HVD12P
ADS7950SBRGET	CD74HCT173EE4	SN74ALS520NE4	SN75HVD12PE4
ADS7950SDBT	CD74HCT174E	SN74ALS521N	SN75LBC174AN
ADS7950SDBTG4	CD74HCT174EE4	SN74ALS521NE4	SN75LBC174ANE4
ADS7950SDBTR	CD74HCT175E	SN74ALS533AN	SN75LVCP412ARTJR
ADS7950SDBTRG4	CD74HCT175EE4	SN74ALS533ANE4	SN75LVCP412ARTJT
ADS7950SRGER	CD74HCT191E	SN74ALS534AN	SN75LVCP412RTJR
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BQ76923PW	DIX9211PT	SN74HC148NE4	TLC3704IN
BQ76923PWR	DIX9211PTR	SN74HC14AN	TLC3704INE4
BQ76925PW	FX001	SN74HC14AN-P	TLC372CP
BQ76925PWR	GD75232N	SN74HC14AN-P2	TLC372CPE4
BQ76PL536APAP	GD75232NE4	SN74HC14ANE4	TLC372IP
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BQ76PL536APAPT	ICL7652PE4	SN74HC14N-P	TLC374CN
BQ8050DBT-D1	INA110KP	SN74HC14N-P2	TLC374CN-A
BQ8055DBT-D1	INA110KPG4	SN74HC14NE4	TLC374CN-AE4
BQ8055DBTR-D1	INA116PA	SN74HC151AN	TLC374CNE4
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BUF18830AIRGFT	INA826AIDRGT	SN74HC151NE4	TLC393CP
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CD74AC02E	INA829IDRGT	SN74HC153NE4	TLC540IN
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CD74AC04E	MAX202CN	SN74HC157ANE4	TLC541IN
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CD74AC05E	MAX232ECN	SN74HC157NE4	TLC542CN
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CD74AC08E	MAX232EIN	SN74HC158NE4	TLC542IN
CD74AC08EE4	MAX232EINE4	SN74HC161AN	TLC542INE4
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CD74AC109EE4	MPC508APG4	SN74HC161N	TLC548CPE4
CD74AC10E	MPC509AP	SN74HC161N-P	TLC548IP
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CD74ACT04E	PCM9211PTR	SN74HC244N	TLV0831CP
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CD74HC253EE4	SN74ACT534N	SN74HCT00N	TPS658621EZQZT
CD74HC257E	SN74ACT534NE4	SN74HCT00NE4	TPS658621FZQZR
CD74HC257EE4	SN74ACT563N	SN74HCT02N	TPS658621FZQZT
CD74HC259E	SN74ACT563NE4	SN74HCT02NE4	TPS658622CZQZR
CD74HC259EE4	SN74ACT564N	SN74HCT04AN	TPS658622CZQZT
CD74HC273E	SN74ACT564NE4	SN74HCT04ANE4	TPS658622DZQZR
CD74HC273EE4	SN74ACT573N	SN74HCT04N	TPS658622DZQZT
CD74HC27E	SN74ACT573NE4	SN74HCT04NE4	TPS658623AZQZR
CD74HC27EE4	SN74ACT574N	SN74HCT08AN	TPS658623AZQZT
CD74HC280E	SN74ACT574NE4	SN74HCT08ANE4	TPS658624AZQZR
CD74HC280EE4	SN74ACT74N	SN74HCT08N	TPS7A8001DRBT
CD74HC283E	SN74ACT74NE4	SN74HCT08NE4	TPS7A8101DRBR
CD74HC283EE4	SN74ACT86N	SN74HCT125N	TPS7A8101DRBT
CD74HC297E	SN74ACT86NE4	SN74HCT125NE4	TPS92070PW
CD74HC297EE4	SN74AHC00N	SN74HCT138AN	TPS92070PWR
CD74HC299E	SN74AHC00NE4	SN74HCT138ANE4	TRS202ECN
CD74HC299EE4	SN74AHC02N	SN74HCT138N	TRS202ECNE4
CD74HC30E	SN74AHC02N-P	SN74HCT138NE4	TRS202EIN
CD74HC30EE4	SN74AHC02N-P2	SN74HCT139N	TRS202EINE4
CD74HC32E	SN74AHC02NE4	SN74HCT139NE4	TRS232ECN
CD74HC32EE4	SN74AHC04N	SN74HCT14N	TRS232ECNE4
CD74HC354E	SN74AHC04NE4	SN74HCT14NE4	TRSF23243CDGGRR
CD74HC354EE4	SN74AHC05N	SN74HCT157N	TRSF23243CDGGRG4
CD74HC365E	SN74AHC05NE4	SN74HCT157NE4	TRSF3223EIRGWR

CD74HC365EE4	SN74AHC08N	SN74HCT240AN	TS36A41641PWR
CD74HC366E	SN74AHC08N-P	SN74HCT240ANE4	TS36A41642PWR
CD74HC366EE4	SN74AHC08N-P2	SN74HCT240N	TS36A41642RGYR
CD74HC367E	SN74AHC08NE4	SN74HCT240NE4	TS3A5018RGYR
CD74HC367EE4	SN74AHC123AN	SN74HCT244AN	TS3A5018RGYRG4
CD74HC368E	SN74AHC123ANE4	SN74HCT244ANE4	TS3DV20812RHHR
CD74HC368EE4	SN74AHC125N	SN74HCT244N	TS3V712ELRTGR
CD74HC373E	SN74AHC125N-P	SN74HCT244NE4	TS3V713ELRTGR
CD74HC373EE4	SN74AHC125NE4	SN74HCT245AN	TS40A41641PWR
CD74HC374E	SN74AHC126N	SN74HCT245ANE4	TS40A41641RGYR
CD74HC374EE4	SN74AHC126NE4	SN74HCT245N	TS40A41642PWR
CD74HC377E	SN74AHC132N	SN74HCT245NE4	TS40A41642RGYR
CD74HC377EE4	SN74AHC132N-P	SN74HCT257N	TS5V330CPWR
CD74HC390E	SN74AHC132NE4	SN74HCT257NE4	TS5V330CRGYR
CD74HC390EE4	SN74AHC138N	SN74HCT273AN	TS5V522CPWR
CD74HC393E	SN74AHC138N-P	SN74HCT273ANE4	TSC3001IRTW
CD74HC393EE4	SN74AHC138N-P2	SN74HCT273N	TSC3001IRWT
CD74HC4002E	SN74AHC138NE4	SN74HCT273NE4	TUSB1106PWR
CD74HC4002EE4	SN74AHC139N	SN74HCT32AN	TUSB1106PWRG4
CD74HC40103E	SN74AHC139NE4	SN74HCT32ANE4	TUSB2551PW
CD74HC40103EE4	SN74AHC14N	SN74HCT32N	TUSB2551PWG4
CD74HC40105E	SN74AHC14N-P	SN74HCT32NE4	TUSB2551PWR
CD74HC40105EE4	SN74AHC14N-P2	SN74HCT373AN	TUSB2551PWRG4
CD74HC4015E	SN74AHC14NE4	SN74HCT373ANE4	TXB0106PW-P
CD74HC4015EE4	SN74AHC157N	SN74HCT373N	TXS02324RUKR
CD74HC4016E	SN74AHC157NE4	SN74HCT373NE4	TXS02326AMRGER
CD74HC4016EE4	SN74AHC158N	SN74HCT374AN	TXS02326MRGER
CD74HC4017E	SN74AHC158NE4	SN74HCT374ANE4	TXS02326RGER
CD74HC4017EE4	SN74AHC174N	SN74HCT374N	TXS4555RGTR
CD74HC4020E	SN74AHC174N-P	SN74HCT374NE4	TXS4558RUKR
CD74HC4020EE4	SN74AHC174NE4	SN74HCT377N	UCC27323DSDR
CD74HC4024E	SN74AHC240N	SN74HCT377NE4	UCC27323DSDT
CD74HC4024EE4	SN74AHC240NE4	SN74HCT540N	UCC27324DSDR
CD74HC4040E	SN74AHC244N	SN74HCT540NE4	UCC27324DSDT
CD74HC4040EE4	SN74AHC244N-P	SN74HCT541AN	UCC27325DSDR
CD74HC4046AE	SN74AHC244N-P2	SN74HCT541ANE4	UCC27325DSDT
CD74HC4046AEE4	SN74AHC244NE4	SN74HCT541N	UCC27524P
CD74HC4049E	SN74AHC245N	SN74HCT541NE4	UCC2788P
CD74HC4049E-P	SN74AHC245NE4	SN74HCT573AN	UCC2788PE4
CD74HC4049E-P2	SN74AHC273N	SN74HCT573ANE4	UCC28050P
CD74HC4049EE4	SN74AHC273N-P	SN74HCT573N	UCC28050PE4
CD74HC4050E	SN74AHC273NE4	SN74HCT573NE4	UCC28051P
CD74HC4050EE4	SN74AHC32N	SN74HCT574AN	UCC28051PE4
CD74HC4051E	SN74AHC32N-P	SN74HCT574ANE4	UCC28510N
CD74HC4051EE4	SN74AHC32N-P2	SN74HCT574N	UCC28510NE4
CD74HC4052E	SN74AHC32NE4	SN74HCT574NE4	UCC28511N
CD74HC4052EE4	SN74AHC367N	SN74HCT623N	UCC28511NE4
CD74HC4053E	SN74AHC367N-P	SN74HCT623NE4	UCC28512N
CD74HC4053EE4	SN74AHC367NE4	SN74HCT645AN	UCC28512NE4
CD74HC4060E	SN74AHC373N	SN74HCT645ANE4	UCC28513N
CD74HC4060EE4	SN74AHC373N-P	SN74HCT645N	UCC28513NE4
CD74HC4066E	SN74AHC373NE4	SN74HCT645NE4	UCC28514N
CD74HC4066EE4	SN74AHC374N	SN74HCT74AN	UCC28514NE4
CD74HC4075E	SN74AHC374NE4	SN74HCT74ANE4	UCC28515N
CD74HC4075EE4	SN74AHC4066N	SN74HCT74N	UCC28515NE4
CD74HC4094E	SN74AHC4066NE4	SN74HCT74NE4	UCC29002P
CD74HC4094EE4	SN74AHC540N	SN74HCU04AN	UCC29002PE4
CD74HC4094PWR-E	SN74AHC540N-P	SN74HCU04AN-P	UCC2975PW
CD74HC423E	SN74AHC540N-P2	SN74HCU04ANE4	UCC2975PWG4
CD74HC423EE4	SN74AHC540NE4	SN74HCU04N	UCC2976PW

CD74HC42E	SN74AHC541N	SN74HCU04N-P	UCC2976PWG4
CD74HC42EE4	SN74AHC541N-P	SN74HCU04N-P2	UCC2977PW
CD74HC4316E	SN74AHC541N-P2	SN74HCU04NE4	UCC2977PWG4
CD74HC4316EE4	SN74AHC541NE4	SN74LS442N	UCC29910APW
CD74HC4351E	SN74AHC573N	SN74LS442NE4	UCC29910APWR
CD74HC4351EE4	SN74AHC573NE4	SN74LS669N	UCC38050P
CD74HC4352E	SN74AHC574N	SN74LS669NE4	UCC38050PE4
CD74HC4352EE4	SN74AHC574NE4	SN74LV4040AN	UCC38051P
CD74HC4511E	SN74AHC594N	SN74LV4040ANE4	UCC38051PE4
CD74HC4511EE4	SN74AHC594NE4	SN74LV4046AN	UCC39002P
CD74HC4518E	SN74AHC595N	SN74LV4046ANE4	UCC39002PE4
CD74HC4518EE4	SN74AHC595NE4	SN74LV4046ARGYR	UCC3976PW
CD74HC4520E	SN74AHC74N	SN74LV4051AN	UCC3976PWG4
CD74HC4520EE4	SN74AHC74N-P	SN74LV4051ANE4	UCC3977PW
CD74HC4538E	SN74AHC74N-P2	SN74LV4051ARGYR	UCC3977PWG4
CD74HC4538EE4	SN74AHC74NE4	SN74LV4051ARGYRG4	VSP2582RHHR

Product Affected: 1.3 Mil Cu Bond Wire Option			
HPA00674DRBR	TLC5942PWPG4	TPS23757PWR	TPS650007RTET
SN0701064PWPR	TLC5942PWPR	TPS51116PWP-P	TPS65138DRCR
SN0701064PWPRG4	TLC5942PWPRG4	TPS62110GRSAR	TRS3253EIRSMR
TLC5942PWP	TPS23757PW	TPS650007RTER	

Product Affected: 2.0 Mil Cu Bond Wire Option			
TAS5601DCA-P	TPS54620RGYR-P	TPS74001DPTR	
TAS5601DCA-PG4	TPS54620RGYT-P	TPS74001DPTT	

Reference Qualification 1 (TSSOP 0.8 mil Cu wire)

Qualification Data: Approved 11/10/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.				
Qual Vehicle : SN74LVTH16244ADGGR (MSL=LEVEL1-260CG)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4209002	
# Pins-Designator, Family:	48-DGG, TSSOP	Mount Compound:	4042500	
Lead Finish, Base	NiPdAu, Cu	Bond Wire:	0.8 Mil Dia. Cu	
Qualification:	<input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results			
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
*High Temp. Storage Bake	170C (420 Hours)	77/0	77/0	77/0
*Autoclave 121C	121C, 2 atm (96 Hours)	77/0	77/0	77/0
*T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass
Note * Preconditioning sequence: MSL1-260C				

Reference Qualification 2 (TSSOP 0.96 mil Cu wire)

Qualification Data: Approved 3/11/2010

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.					
Qual Vehicle 1: BQ29330DBT (MSL=LEVEL2-260CG)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4206193		
# Pins-Designator, Family:	30-DBT, TSSOP	Mount Compound:	4042500		
Lead Finish, Base	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Sample Size (PASS/FAIL)			
		Lot#1	Lot#2	Lot#3	
*High Temp. Storage Bake	170C (420 Hours)	77/0	77/0	77/0	
*Autoclave 121C	121C, 2 atm (96 Hours)	77/0	77/0	77/0	
*T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0	
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	
*Thermal Shock	-65C/+150C (500 Cycles)	77/0	77/0	77/0	
Note * Test requires Moisture Preconditioning					

Qualification Data: Approved 01/03/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.					
Qual Vehicle 1: BUF16821BIPWP (MSL 2-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4205443		
# Pins-Designator, Family:	28-PWP, TSSOP	Mount Compound:	4208458		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0	
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
**T/C -55C/125C	-55C/+125C (1000 Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Notes: **Tests require preconditioning sequence: MSL2-260C					

Qual Vehicle 2: TAS5086DBT (MSL 2-260C)			
Package Construction Details			
Assembly Site:	TI Taiwan	Mold Compound:	4206193
# Pins-Designator, Family:	38-DBT, TSSOP	Mount Compound:	4042500
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp Operating Life (Analog)	155C (240 Hrs), Vddmax	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**T/C -55C/125C	-55C/+125C (1000 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0

Notes: **Tests require preconditioning sequence: MSL2-260C

Qualification Data: Approved 07/07/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.

Qual Vehicle 1: ADS1230IPW (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4206193	
# Pins-Designator, Family:	16-PW, TSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420 Hours)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hours)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass

Notes: **Tests require preconditioning sequence: MSL2-260C

Qual Vehicle 2: BUF07704AIPWP (MSL2-260C)			
Package Construction Details			
Assembly Site:	TI Malaysia	Mold Compound:	4205443
# Pins-Designator, Family:	20-PWP, HTSSOP	Mount Compound:	4042504
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL2-260C				

Qual Vehicle 3: CDCVF2505PW (MSL1-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4206193	
# Pins-Designator, Family:	8-PW, TSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL1-260C				

Qual Vehicle 4: SN75LVDS84ADGG (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4209002	
# Pins-Designator, Family:	48-DGG, TSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Unbiased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL2-260C				

Qual Vehicle 5: THS7303PW (MSL2-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4206193		
# Pins-Designator, Family:	20-PW, TSSOP	Mount Compound:	4042500		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	170 (420 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	

Qual Vehicle 6: TLC5930PWP (MSL2-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4205443		
# Pins-Designator, Family:	24-PWP, HTSSOP	Mount Compound:	4042504		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
Notes: **Tests require preconditioning sequence: MSL2-260C					

Qual Vehicle 7: TPS77701PWP (MSL2-260C)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4205443		
# Pins-Designator, Family:	20-PWP, HTSSOP	Mount Compound:	4042504		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
Notes: **Preconditioning sequence: MSL2-260C					

Qual Vehicle 8: TPS77801PWP (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4209002	
# Pins-Designator, Family:	20-PWP, HTSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL2-260C				

Reference Qualification 3 (TSSOP 1.3 mil Cu wire)

Qualification Data: Approved 02/13/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device(s) Construction Details:

Qual Vehicle 1: TAS5182DCA (MSL=LEVEL3-260C)

Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205443	
# Pins-Designator, Family:	56-DCA, TSSOP	Mount Compound:	4206201	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	-	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	-	-
**Autoclave	121C, 2 atm 96 Hrs	77/0	-	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
** - Test requires Moisture Preconditioning				

Qual Vehicle 2: TPS40057PWP (MSL=LEVEL2-260C)**Package Construction Details**

Assembly Site:	TI Taiwan	Mold Compound:	4205443
# Pins-Designator, Family:	16-PWP, TSSOP	Mount Compound:	4042504
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	-	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	-	-
**Autoclave	121C, 2 atm 96 Hrs	77/0	-	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-

** - Test requires Moisture Preconditioning

Qual Vehicle 3: TPS65161PWP (MSL=LEVEL2-260C)**Package Construction Details**

Assembly Site:	TI Taiwan	Mold Compound:	4205443
# Pins-Designator, Family:	28-PWP, TSSOP	Mount Compound:	4042504
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	-	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	-	-
**Autoclave	121C, 2 atm, 96 Hrs	77/0	-	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-

** - Test requires Moisture Preconditioning

Qual Vehicle 4: UCC2891PW (MSL=LEVEL1-260C)**Package Construction Details**

Assembly Site:	TI Malaysia	Mold Compound:	4206193
# Pins-Designator, Family:	16-PW, TSSOP	Mount Compound:	4042500
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	-	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	-	-
**Autoclave	121C, 2 atm, 96 Hrs	77/0	-	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
** - Test requires Moisture Preconditioning				

Qual Vehicle 5: UCC2897PW (MSL=LEVEL1-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4206193	
# Pins-Designator, Family:	20-PW, TSSOP	Mount Compound:	4042500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	77/0	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	77/0	-
**Autoclave	121C, 2 atm, 96 Hrs	77/0	77/0	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	77/0	-
Manufacturability (Assembly)	As per assembly site spec	Pass	Pass	-
** - Test requires Moisture Preconditioning				

Reference Qualification 4 (TSSOP 2.0 mil Cu wire)

Qualification Data: Approved 02/18/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qualification Device(s) Construction Details:				
Qual Vehicle : TPS2236DAP (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205443	
# Pins-Designator, Family:	32-DAP, TSSOP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	2.0 Mil Dia. Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**Temp Cycle	-65/+150C, 500 cycles	77/0	-	-
**High Temp Storage Bake	170C, 420 Hrs	77/0	-	-
**Autoclave	121C, 2 atm, 96 Hrs	77/0	-	-
**Thermal Shock	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
** - Test requires Moisture Preconditioning				

Reference Qualification 5 (QFP 0.8 mil Cu wire)

Qualification Data: Approved 03/16/2010

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.				
Qual Vehicle : TSB43AB23PDT (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Philippines	Mold Compound:	4205442	
Pin Count, Package Family:	128, TQFP	Mount Compound:	4042504	
Lead Finish, Base	NiPdAu, Cu	Bond Wire:	0.8 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results: Approved 3/16/2010				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420 Hours)	77/0	77/0	77/0
**Autoclave	121C, 2 atm, 96 Hours	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cycles)	77/0	77/0	77/0
**T/C -55C/125C	-55C/+125C (1000 Cycles)	77/0	77/0	77/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass
**Thermal Shock	-65C/+150C (500 Cycles)	77/0	77/0	77/0
Note** Test requires Moisture Preconditioning				

Qualification Data: Approved 07/07/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.				
Qual Vehicle : TSB81BA3EPFP (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205443	
# Pins-Designator, Family:	80-PFP, TQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.8 Mil Dia., Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL3-260C				

Reference Qualification 6 (QFP 0.96 mil Cu wire)

Qualification Data: Approved 03/16/2010

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.				
Qual Vehicle : TMS351PAG (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Philippines	Mold Compound:	4205442	
# Pins-Designator, Family:	64-PAG, TQFP	Mount Compound:	4042504	
Lead Finish, Base	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results:				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420 Hours)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hours)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
**T/C -55C/125C	-55C/+125C (1000 Cycles)	77/0	77/0	77/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass
**Thermal Shock	-65C/+150C (500 Cycles)	77/0	77/0	77/0
Note** Test requires Moisture Preconditioning				

Qualification Data: Approved 07/07/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable specifications.				
Qual Vehicle 1: F741900APFB (MSL3-250C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205442	
# Pins-Designator, Family:	48-PFB, TQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL3-250C				

Qual Vehicle 2: THS7327PHP (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205443	
# Pins-Designator, Family:	48-PHP, HTQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	-	-
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
Notes: **Preconditioning sequence: MSL3-260C				

Qual Vehicle 3: TL16C550DPTR (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205442	
# Pins-Designator, Family:	48-PT, LQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	-	-
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
Notes: **Preconditioning sequence: MSL3-260C				

Qual Vehicle 4: TL16C752BPT (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205442	
# Pins-Designator, Family:	48-PT, LQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	-	-
**Autoclave 121C	121C, 2 atm (96 Hours)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	-	-
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	-	-
Notes: **Tests require preconditioning sequence: MSL3-260C				
Qual Vehicle 5: TPS5130PTR (MSL1-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205442	
# Pins-Designator, Family:	48-PT, LQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	-	-
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	-	-
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	-	-
Notes: **Tests require preconditioning sequence: MSL1-260C				

Qual Vehicle 6: TSB12LV21BPGF (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Philippines	Mold Compound:	4205442	
# Pins-Designator, Family:	176-PGF, LQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL3-260C				

Qual Vehicle 7: TSB41AB1PHP (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205443	
# Pins-Designator, Family:	48-PHP, HTQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	-
Manufacturability	(per mfg. Site specification)	Pass	Pass	-
Notes: **Preconditioning sequence: MSL3-260C				

Qual Vehicle 8: UCC5696PN (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205442	
# Pins-Designator, Family:	80-PN,LQFP	Mount Compound:	4042504	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	-
Manufacturability	(per mfg. Site specification)	Pass	Pass	-
Notes: **Preconditioning sequence: MSL3-260C				

Reference Qualification 7 (QFN 0.8 mil Cu wire)

Qualification Data: Approved 07/01/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qual Vehicle : TLVDAC32IRHBR (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Clark	Mold Compound:	4208625	
# Pins-Designator, Family:	32-RHB, VQFN	Mount Compound:	4207768	
Solder Ball Composition:	NiPdAu, Cu	Bond Wire:	0.8 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
*T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-Ray	(top side only)	5/0	5/0	5/0
Notes: **Preconditioning sequence: MSL2-260C				

Reference Qualification 8 (QFN 0.96 mil Cu wire)

Qualification Data: Approved 01/03/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.					
Qual Vehicle 1: BQ24703RHD (MSL2-260C)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4208625		
# Pins-Designator, Family:	28-RHD, VQFN	Mount Compound:	4205846		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
Notes: **Tests require preconditioning sequence: MSL2-260C					
Qual Vehicle 2: SN75DP139RGZ (MSL3-260C)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4208625		
# Pins-Designator, Family:	48-RGZ, VQFN	Mount Compound:	4205846		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
Notes: **Preconditioning sequence: MSL3-260C					
Qual Vehicle 3: TPA5050RSA (MSL2-260C)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4208625		
# Pins-Designator, Family:	16-RSA, VQFN	Mount Compound:	4205846		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results					
Reliability Test	Conditions	Pass / Fail			
		Lot 1	Lot2	Lot 3	
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0	
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass	
Notes: **Preconditioning sequence: MSL2-260C					

Qual Vehicle 4: TPS51427ARHB (MSL2-260C)**Package Construction Details**

Assembly Site:	TI Malaysia	Mold Compound:	4208625
# Pins-Designator, Family:	32-RHB, VQFN	Mount Compound:	4205846
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: Plan **Test Results**

Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
*T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass

Notes: **Preconditioning sequence: MSL2-260C

Qual Vehicle 5: TPS51620RHAR (MSL2-260C)**Package Construction Details**

Assembly Site:	TI Malaysia	Mold Compound:	4208625
# Pins-Designator, Family:	40-RHA, VQFN	Mount Compound:	4205846
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: Plan **Test Results**

Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass

Notes: **Preconditioning sequence: MSL2-260C

Qualification Data: Approved 07/01/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qual Vehicle 1 : DRV401AIRGW (MSL 2-260C)**Package Construction Details**

Assembly Site:	TI Clark	Mold Compound:	4208625
# Pins-Designator, Family:	20-RGW,VQFN	Mount Compound:	4207768
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: Plan **Test Results**

Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls, 3 units min	76/0	76/0	76/0
Bond Pull	76 Wire, 3 units min	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-ray	(top side only)	5/0	5/0	5/0

Notes: **Preconditioning sequence: MSL2-260C

Qual Vehicle 2 : SN75DP122ARTQ (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Clark	Mold Compound:	4208625	
# Pins-Designator, Family:	56-RTQ, VQFN	Mount Compound:	4207768	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls 3 units min	76/0	76/0	76/0
Bond Pull	76 Wire 3 units min	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-ray	(top side only)	5/0	5/0	5/0
Notes: **Preconditioning sequence: MSL3-260C				
Qual Vehicle 3 : TPA2005D1DRB (MSL 2-260C)				
Package Construction Details				
Assembly Site:	TI Clark	Mold Compound:	4208625	
# Pins-Designator, Family:	8-DRB, VSON	Mount Compound:	4207768	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls 3 units min	76/0	76/0	76/0
Bond Pull	76 Wire 3 units min	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-ray	(top side only)	5/0	5/0	5/0
Notes: **Preconditioning sequence: Level 2-260C				
Qual Vehicle 4 : TPS51217DSCR_RFAB (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Clark	Mold Compound:	4208625	
# Pins-Designator, Family:	10-DSC, WSON	Mount Compound:	4207768	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
High Temp Operating Life	125C (1000 Hrs), Vddmax	77/0	77/0	77/0
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls, 3 units min	76/0	76/0	76/0
Bond Pull	76 Wires, 3 units min	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-ray	(top side only)	5/0	5/0	5/0
Notes: **Preconditioning sequence: Level 2-260C				
Qual Vehicle 5 : TPS51217DSC_UMC (MSL2-260C)				
Package Construction Details				
Assembly Site:	TI Clark	Mold Compound:	4208625	
# Pins-Designator, Family:	10-DSC, WSON	Mount Compound:	4207768	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	170C (420 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Ball Bond Shear	76 balls, 3 units min	76/0	76/0	76/0
Bond Pull	76 Wires, 3 units min	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
X-ray	(top side only)	5/0	5/0	5/0
Notes: **Preconditioning sequence: MSL2-260C				

Qualification Data: Approved 06/02/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qualification Device(s) Construction Details:				
Qual Vehicle 1: TPA6132A2RTE (MSL=LEVEL2-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0004	
# Pins-Designator, Family:	16-RTE, WQFN	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	-	-
High Temp Storage Bake	+170C, 420 Hrs.	77/0	-	-
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	-	-
Thermal Shock*	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
* - Test requires Moisture Preconditioning				
Qual Vehicle 2: TPS51117RGY (MSL=LEVEL2-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0004	
# Pins-Designator, Family:	14-RGY, VQFN	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	-	-
High Temp Storage Bake	+170C, 420 Hrs.	77/0	-	-
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	-	-
Thermal Shock*	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
* - Test requires Moisture Preconditioning				
Qual Vehicle 3: TPS51125RGE (MSL=LEVEL2-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0004	
# Pins-Designator, Family:	24-RGE, VQFN	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	-	-
High Temp Storage Bake	+170C, 420 Hrs.	77/0	-	-
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	-	-
Thermal Shock*	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
* - Test requires Moisture Preconditioning				

Qual Vehicle 4: TPS51200DRC (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0004	
# Pins-Designator, Family:	10-DRC, VSON	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	-	-
High Temp Storage Bake	+170C, 420 Hrs.	77/0	-	-
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	-	-
Thermal Shock*	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-
* - Test requires Moisture Preconditioning				

Reference Qualification 9 (QFN 1.3 mil Cu wire)

Qualification Data: Approved 02/02/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device(s) Construction Details:

Qual Vehicle 1: SN0701013DRC (MSL=LEVEL2-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0001	
# Pins-Designator, Family:	10-DRC, VSON	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	77/0	77/0
High Temp Storage Bake	+170C, 420 Hrs.	77/0	77/0	77/0
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	77/0	77/0
Thermal Shock*	-65/150C, 1000 Cycles	77/0	77/0	77/0
Manufacturability (Assembly)	As per assembly site spec	Pass	Pass	Pass
* - Test requires Moisture Preconditioning				
Qual Vehicle 2: TPA6040A4RHB (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4208625-0001	
# Pins-Designator, Family:	32-RHB, VQFN	Mount Compound:	4205846-0001	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	1.3 Mil Dia. Cu	

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	77/0	77/0
High Temp Storage Bake	+170C, 420 Hrs.	77/0	77/0	77/0
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	77/0	77/0
Thermal Shock*	-65/150C, 1000 Cycles	77/0	77/0	77/0
Manufacturability (Assembly)	As per assembly site spec	Pass	Pass	Pass

* - Test requires Moisture Preconditioning

Reference Qualification 10 (QFN 2.0 mil Cu wire)

Qualification Data: Approved 1/26/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.			
Qualification Device(s) Construction Details:			
Qual Vehicle 1: TPA3100D2RGZ (2 die side by side multi-chip module) (MSL=LEVEL2-260C)			
Package Construction Details			
Assembly Site:	TI Malaysia	Mold Compound:	4208625
# Pins-Designator, Family:	48-RGZ, VQFN	Mount Compound:	4205846
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	2 Mil Dia. Cu (both die)
		Interchip Bonds:	Yes - 14
Qual Vehicle 2: TPS65136RTE (MSL=LEVEL2-260C)			
Package Construction Details			
Assembly Site:	TI Malaysia	Mold Compound:	4208625
# Pins-Designator, Family:	16-RTE, WQFN	Mount Compound:	4207768
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	2 Mil Dia. Cu

Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
Temp Cycle*	-65/+150C, 500 cycles	77/0	-	-
High Temp Storage Bake	+170C, 420 Hrs.	77/0	-	-
Autoclave*	+121C, 2 atm (96 Hrs)	77/0	-	-
Thermal Shock*	-65/150C, 1000 Cycles	77/0	-	-
Manufacturability (Assembly)	As per assembly site spec	Pass	-	-

* - Test requires Moisture Preconditioning

Reference Qualification 11 (BGA 0.8 mil Cu wire)

Qualification Data: Approved 01/03/2011

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qualification Device(s) Construction Details:				
Qual Vehicle 1: TLV320AIC3106IZQE (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205867	
# Pins-Designator, Family:	80-ZQE, JrBGA	Mount Compound:	4111062	
Solder Ball Diameter	11.81 mils	Bond Wire:	0.8 Mil Dia. Cu	
Solder Ball Composition	SnAgCu	Substrate Finish	Thin NiAu Ball Side	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
*High Temp. Storage Bake	150C 1000 Hours	77/0	77/0	77/0
*Autoclave 121C	121C, 2 atm 96 Hours	77/0	77/0	77/0
*Unbiased HAST	130C/85%RH 96 Hours	77/0	77/0	77/0
*Temperature Cycle	-55C/+125C 1000 Cycles	77/0	77/0	77/0
Manufacturability	per mfg. Site specification	Pass	Pass	Pass
* Preconditioning Required L3-260C				

Qual Vehicle 2: VSP6822AZRC (MSL=LEVEL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205867	
# Pins-Designator, Family:	98-ZRC, JrBGA	Mount Compound:	4111062	
Solder Ball Diameter	11.81 mils	Bond Wire:	0.8 Mil Dia. Cu	
Solder Ball Composition	SnAgCu	Substrate Finish	CuNiAu Ball Side	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
*High Temp. Storage Bake	150C 1000 Hours	77/0	77/0	77/0
*Autoclave 121C	121C, 2 atm 96 Hours	77/0	77/0	77/0
*Unbiased HAST	130C/85%RH 96 Hours	77/0	77/0	77/0
*Temperature Cycle	-55C/+125C 1000 Cycles	77/0	77/0	77/0
Manufacturability	per mfg. Site specification	Pass	Pass	Pass
* Preconditioning Required L3-260C				

Qual Vehicle 3: VSP6825AZRC (MSL 3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205867	
# Pins-Designator, Family:	103-ZRC, JrBGA	Mount Compound:	4111062	
Solder Ball Composition:	SnAgCu	Bond Wire:	0.8 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
Notes: **Test requires preconditioning sequence: MSL3-260C				

Qualification Data: Approved 07/07/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qual Vehicle 1: TVAIC3106IZQER (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Philippines	Mold Compound:	4205867	
# Pins-Designator, Family:	80-ZQE, JrBGA	Mount Compound:	4111062	
Solder Ball Composition:	SnAgCu	Bond Wire:	0.8 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL3-260C				

Qual Vehicle 2: VSP6825AZRCR (MSL3-260C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205867	
# Pins-Designator, Family:	103-ZRC, JrBGA	Mount Compound:	4111062	
Solder Ball Composition:	SnAgCu	Bond Wire:	0.8 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL3-260C				

Qualification Data: Approved 03/16/2009

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qualification Device(s) Construction Details:				
Qual Vehicle : TSB43DA42GHC (MSL=LEVEL3-220C)				
Package Construction Details				
Assembly Site:	TI Philippines	Mold Compound:	4203565	
# Pins-Designator, Family	169-GHC, UBGA	Mount Compound:	4073505	
Solder Ball Composition	SnPb	Bond Wire:	0.8 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size (PASS/FAIL)		
		Lot#1	Lot#2	Lot#3
*High Temp. Storage Bake	150C (1000 Hours)	77/0	77/0	77/0
*Unbiased HAST	130C/85%RH/33.3 psia (96 Hours)	77/0	77/0	77/0
T/C	-55C/+125C (1000 Cycles)	77/0	77/0	77/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass
Note* Test requires Moisture Preconditioning				

Reference Qualification 12 (BGA 0.96 mil Cu wire)

Qualification Data: Approved 07/07/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.				
Qual Vehicle 1: DRV590GQC (MSL2A-235C)				
Package Construction Details				
Assembly Site:	TI Taiwan	Mold Compound:	4205867	
# Pins-Designator, Family:	48-GQC, JRBGA	Mount Compound:	4111062	
Solder Ball Composition:	SnPb	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Pass / Fail		
		Lot 1	Lot2	Lot 3
**High Temp. Storage Bake	150C (500, 1000 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
*T/C -65C/150C	-65C/+150°C (500 Cycles)	77/0	77/0	77/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Notes: **Preconditioning sequence: MSL2A-235C				

Qualification Data: Approved 08/25/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qual Vehicle 1: TPS658621CZGU (MSL 3-260C)

Package Construction Details

Assembly Site:	TI Philippines	Mold Compound:	4203565
# Pins-Designator, Family:	169-ZGU, u*BGA	Mount Compound:	4111062
Solder Ball Composition:	SnAgCu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size
		Pass / Fail
**High Temp. Storage Bake	170C (420 Hrs)	77/0
**Unbiased HAST	130C/85%RH (96 Hrs)	77/0
**T/C -55C/125C	-55C/+125C (1000 Cyc)	77/0
Manufacturability	(per mfg. Site specification)	Pass

Notes: **Preconditioning sequence: Level 3-260C

Reference Qualification 13 (PDIP 0.96 mil Cu wire)

Qualification Data: Approved 09/27/2011

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qual Device 1: CD4072BE

Package Attributes:

Assembly Site:	TI Mexico	Mold Compound:	4042503
# Pins-Designator, Family:	14-N, PDIP	Mount Compound:	4147858
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu

Qualification: Plan Test Results

Reliability Test	Conditions	Sample Size
		Pass / Fail
Bond Strength	76 ball bonds, min. 3 units	76/0
Biased HAST	130C/85%RH (96 Hrs)	77/0
Autoclave 121C	121C, 2 ATM (96 hrs)	77/0
X-Ray	Topside Only	5/0
Manufacturability	(per mfg. Site specification)	Pass
Life test (High Temperature Operating Life)	150C (300 Hrs)	76/0
High Temp. Storage Bake	170C (420 Hrs)	77/0
T/C -65C/150C	-65C/+150C (500 Cyc)	77/0
Electrical Characterization	-	Pass
Thermal Shock	-65C/+150C (500 Cyc)	77/0

Qual Device 2: NE5532P		
Package Attributes:		
Assembly Site:	TI Mexico	Mold Compound: 4042503
# Pins-Designator, Family:	8-P, PDIP	Mount Compound: 4147858
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire: 0.96 Mil Dia., Cu
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions	Sample Size Pass / Fail
Bond Strength	76 ball bonds, min. 3 units	76/0
Biased HAST	130C/85%RH (96 Hrs)	77/0
Autoclave 121C	121C, 2 ATM (96 hrs)	77/0
Thermal Shock	-65C/+150C (500 Cyc)	77/0
Manufacturability	(per mfg. Site specification)	Pass
Life test (High Temperature Operating Life)	150C (300 Hrs)	77/0
High Temp. Storage Bake	170C (420 Hrs)	77/0
Electrical Characterization	-	Pass
X-Ray	Topside Only	5/0
T/C -65C/150C	-65C/+150C (500 Cyc)	77/0
Qual Device 3: ULN2003AN		
Package Attributes:		
Assembly Site:	TI Mexico	Mold Compound: 4042503
# Pins-Designator, Family:	16-N, PDIP	Mount Compound: 4147858
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire: 0.96 Mil Dia., Cu
Qualification: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results		
Reliability Test	Conditions	Sample Size Pass / Fail
Bond Strength	76 ball bonds, min. 3 units	76/0
Biased HAST	130C/85%RH (96 Hrs)	77/0
Autoclave 121C	121C, 2 ATM (96 hrs)	77/0
T/C -65C/150C	-65C/+150C (500 Cyc)	77/0
High Temp. Storage Bake	170C (420 Hrs)	77/0
Thermal Shock	-65C/+150C (500 Cyc)	77/0
Manufacturability	(per mfg. Site specification)	Pass
Life test (High Temperature Operating Life)	150C (300 Hrs)	77/0
Electrical Characterization	-	Pass
X-Ray	Topside Only	5/0

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

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