



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20120808000
Qualification of Alternate Material Set for Assembly with Au Wire
and Cu as Additional Wire Base Metal Option for Select SOIC Package Devices
Change Notification / Sample Request

Date:

8/24/2012

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

20120808000
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
SN65LBC175D	
TLC555CD	
TLE2426ID	
TPS7301QD	
TPS77518D	
TLC374ID	
TLE2021CDRG4	
TLV2241ID	
TLV2241IDR	
TPA152DRG4	
TPS77633D	
SN65LVDS105DR	
TLC1078IDR	
TLC2252CDR	
TLC27L4IDR	
TLC27M2CDR	
TLC555IDR	
TLC5620CDR	
TLE2071AID	
TLE2072AIDR	
TLV5620IDR	
TPS7101QDR	
TPS7333QDR	
ADS7817U	
CDC329ADR	
CDCVF2505DR	
INA271AIDR	
OPA1632D	
OPA1632DG4	
SN10502D	
SN10502DR	
SN65HVD1040DR	
SN65HVD1050DR	
SN65HVD33DR	
SN65HVD35DR	
SN65HVD53DR	
SN65HVD54D	
SN65LBC173D	
SN65LBC176DR	
SN65LBC182DR	
SN65LVCP22D	

SN65LVCP23DR
SN65LVDM180D
SN65LVDS047DR
SN65LVDS048ADR
SN65LVDS104D
SN65LVDS104DR
SN65LVDS105D
SN65LVDS179D
SN65LVDS390DRG4
SN65LVDS391DG4
SN65LVDS391DRG4
SN65LVDS9637BD
SN65LVDS9638DRG4
SN65LVDT34DG4
SN65LVDT390DG4
SN75LBC175D
SN75LBC176AD
SN75LBC176ADR
SN75LBC176DRG4
SN75LBC182DR
TB3R1D
TB5D2HD
THS3091D
THS3111ID
THS3201D
THS4021ID
THS4031CDR
THS4031ID
THS4031IDR
THS4041CDR
THS4062CD
THS4082CDG4
THS4082ID
THS4082IDR
THS4130CD
THS4500IDG4
THS4503ID
THS4504DR
THS4631DE4
THS4631DR
TL1451ACDG4
TL3016CD
TL3016CDR
TL3016ID
TL851CDR
TL852CDR
TLC04CDG4
TLC04IDR
TLC070IDR
TLC071CD
TLC071CDR

TLC072CDRG4
TLC081CDR
TLC081IDR
TLC082CDR
TLC082IDR
TLC0831IDR
TLC0832IDR
TLC084AIDR
TLC084CDR
TLC084IDR
TLC1549IDR
TLC1549IDRG4
TLC2201ACDR
TLC2201IDR
TLC2252AID
TLC2252AIDRG4
TLC2252CD
TLC2252ID
TLC2252IDR
TLC2254AIDR
TLC2254AIDRG4
TLC2254CD
TLC2254ID
TLC2254IDR
TLC2262AIDR
TLC2262AIDRG4
TLC2264AID
TLC2264AIDR
TLC2264CD
TLC2264IDR
TLC2264IDRG4
TLC2272ACD
TLC2272ACDR
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TLC2272AID
TLC2272AIDR
TLC2272CD
TLC2272CDR
TLC2274ACDR
TLC2274CD
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TLC2274CDRG4
TLC2274ID
TLC2274IDG4
TLC2274IDR
TLC252ACD
TLC252CDG4
TLC2554CD
TLC2654AC-8D
TLC2654C-14DR
TLC272BCDR

TLC272BIDRG4
TLC274ACD
TLC274ACDR
TLC274BCDR
TLC274BIDR
TLC274CDR
TLC274IDR
TLC277CDR
TLC277CDRG4
TLC277ID
TLC277IDR
TLC27L2ACD
TLC27L2BIDR
TLC27L2CD
TLC27L2CDR
TLC27L2ID
TLC27L2IDR
TLC27L2IDRG4
TLC27L4AIDR
TLC27L4CDR
TLC27L4IDRG4
TLC27L7IDR
TLC27L9IDR
TLC27M2AIDR
TLC27M2BCDR
TLC27M2BIDR
TLC27M2IDR
TLC27M2IDRG4
TLC27M4ACD
TLC27M4ACDR
TLC27M4AIDR
TLC27M4BCDR
TLC27M4BIDR
TLC27M7IDG4
TLC27M7IDR
TLC339CDR
TLC354CD
TLC354ID
TLC3702CDR
TLC3704IDRG4
TLC372IDR
TLC393IDR
TLC4501AIDR
TLC4501AIDRG4
TLC4501IDR
TLC4501IDRG4
TLC4502ACD
TLC4502ACDRG4
TLC4502CD
TLC4502CDR
TLC4502ID

TLC4541ID
TLC4545IDG4
TLC548IDR
TLC555CDG4
TLC555IDRG4
TLC556ID
TLC556IDR
TLC556IDRG4
TLC5615ID
TLC5615IDR
TLC5620CD
TLC5620IDG4
TLC5620IDR
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TLC7701IDR
TLC7701IDRG4
TLC7733ID
TLC7733IDR
TLC7733QDR
TLE2021CD
TLE2021CDR
TLE2021ID
TLE2021IDR
TLE2022ACDR
TLE2022CD
TLE2022CDG4
TLE2022CDR
TLE2022CDRG4
TLE2022ID
TLE2022IDG4
TLE2037CD
TLE2062AIDR
TLE2062CDR
TLE2062ID
TLE2064AIDR
TLE2071AIDR
TLE2072ID
TLE2072IDRG4
TLE2141IDR
TLE2142AID
TLE2142AIDR
TLE2142ID
TLE2142IDR
TLE2161ACD
TLE2425CDR
TLE2426CDR
TLE2426CDRG4
TLE2426IDG4
TLE2426IDR
TLV1504ID
TLV1544CDR

TLV1544IDR
TLV1572ID
TLV1572IDR
TLV2252AIDR
TLV2252AIDRG4
TLV2252IDR
TLV2262IDG4
TLV2262IDR
TLV2262IDRG4
TLV2264AIDR
TLV2322IDR
TLV2324IDR
TLV2432AIDG4
TLV2432AIDRG4
TLV2432ID
TLV2434IDR
TLV2434IDRG4
TLV2442AID
TLV2442IDG4
TLV2444IDR
TLV2451IDR
TLV2454AID
TLV2454IDR
TLV2462CDRG4
TLV2464AIDR
TLV2464AIDRG4
TLV2471CDR
TLV2473CDR
TLV2474CDRG4
TLV2544CD
TLV2772CDR
TLV4112ID
TLV5604CDR
TLV5616CDR
TLV5616ID
TLV5616IDR
TLV5616IDRG4
TLV5617ACDR
TLV5617AID
TLV5617AIDR
TLV5618AID
TLV5618AIDR
TLV5620CD
TLV5620CDR
TLV5624ID
TLV5625ID
TLV5625IDR
TLV5626CDR
TLV5626CDRG4
TLV5627CD
TLV5627CDR

TLV5636ID
TLV5638CDG4
TLV5638CDR
TLV5638CDRG4
TMP124AIDR
TPA112DR
TPA122DR
TPA301D
TPA302DG4
TPA302DR
TPA321DR
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TPA701DR
TPA711D
TPA711DR
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TPS2011DR
TPS2067DR
TPS2090DR
TPS2095D
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TPS2330IDRG4
TPS2375DR
TPS2377DR
TPS2377DR-1
TPS2377DRG4
TPS2813DG4
TPS2834D
TPS3305-18D
TPS3305-18DG4
TPS3306-15D
TPS3307-18DR
TPS3307-25D
TPS3307-25DR
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TPS71025DR
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TPS7150QDG4
TPS7233QD
TPS7233QDR
TPS7301QDR
TPS7301QDRG4

TPS7333QD
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TPS76618DRG4
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TPS76633DR
TPS76650D
TPS76650DR
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TPS76801QDR
TPS76818QD
TPS76833QD
TPS76833QDR
TPS76850QD
TPS77501DR
TPS77516DR
TPS77533DR
TPS77618D
TPS77618DRG4
TPS77625D
TPS77625DR
SN65LVDS9637BDR
CDC328AD
CDC329AD
CDCVF2505D
CDCVF25081D
INA270AID
INA271AID
OPA1632DR
SN65CML100D
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SN65LBC182D

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THS6182D
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TLC074ID
TLC075AIDR
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TLC081CD
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TLC082ID
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TLC1079CD
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TLC2201CD
TLC2201ID
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TLC2254AID
TLC2254CDR
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TLC2264ID
TLC2274ACD
TLC251CD
TLC251CDR
TLC252CD
TLC252CDR
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TLC25M2ACD
TLC25M2CD
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TLC2652AI-14D
TLC2652AI-8D
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TLC2654C-8D
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TLC2654I-8DR
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TLC274BCD
TLC274BID
TLC274CD

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TLC277CD
TLC279CD
TLC279CDR
TLC279ID
TLC279IDR
TLC27L1BCD
TLC27L2ACDR
TLC27L2AID
TLC27L2AIDR
TLC27L2BCD
TLC27L2BCDR
TLC27L2BID
TLC27L4ACD
TLC27L4ACDR
TLC27L4AID
TLC27L4BCD
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TLC27L4BID
TLC27L4BIDR
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TLC27L9CD
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TLC27M4BCD
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TLC27M4CD
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TLC27M4IDR
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TLC27M7CDR
TLC27M7ID
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TLC27M9CDR
TLC27M9ID
TLC339CD
TLC3541ID
TLC3541IDR
TLC3702CD
TLC3704CD
TLC3704CDR
TLC3704ID

TLC3704IDR
TLC372CD
TLC372CDR
TLC372ID
TLC374IDR
TLC393ID
TLC4501ACD
TLC4501CD
TLC4502AID
TLC4502IDR
TLC551CD
TLC555ID
TLC556CD
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TLC5615CDR
TLC5620ID
TLC7524CD
TLC7524CDR
TLC7524ID
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TLC7701ID
TLC7701IDG4
TLC7703ID
TLC7705ID
TLC7705IDR
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TLC7733QD
TLC7733QDRG4
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TLE2037IDR
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TLE2061AID
TLE2061CD
TLE2061CDR
TLE2062ACD
TLE2062ACDR
TLE2062AID
TLE2062CD
TLE2062IDR
TLE2064ACD
TLE2064AID
TLE2064CD
TLE2064CDR

TLE2064ID
TLE2071ACD
TLE2071CD
TLE2071ID
TLE2071IDG4
TLE2071IDR
TLE2072ACD
TLE2072AID
TLE2072CD
TLE2072CDR
TLE2081CD
TLE2081CDR
TLE2081ID
TLE2082ACD
TLE2082AID
TLE2082CD
TLE2082CDR
TLE2082ID
TLE2082IDR
TLE2141ACD
TLE2141AID
TLE2141AIDR
TLE2141CDR
TLE2142ACD
TLE2142ACDR
TLE2142CD
TLE2142CDR
TLE2161CD
TLE2425CD
TLE2425ID
TLE2425IDR
TLE2426CD
TLV0832CD
TLV0832ID
TLV1544CD
TLV2242CD
TLV2242ID
TLV2244ID
TLV2252AID
TLV2252ID
TLV2254AID
TLV2254AIDR
TLV2254ID
TLV2254IDR
TLV2264AID
TLV2264ID
TLV2322ID
TLV2352ID
TLV2401CD
TLV2402CD
TLV2402IDR

TLV2404CD
TLV2404IDR
TLV2422ID
TLV2422IDR
TLV2432AID
TLV2432CD
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TLV2470IDR
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TLV2471CD
TLV2472AID
TLV2472CDR
TLV2472ID
TLV2472IDR
TLV2474AID
TLV2474AIDR
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TLV2474IDR
TLV2542IDR
TLV2770CD
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TLV2772AID
TLV2772CD
TLV2772ID
TLV2772IDR
TLV2774AID

TLV2774AIDR
TLV2774CD
TLV2774IDR
TLV2775ID
TLV5604CD
TLV5604ID
TLV5614CD
TLV5616CDG4
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TLV5618ACD
TLV5620ID
TLV5621ID
TLV5623CD
TLV5623CDR
TLV5623ID
TLV5625CDG4
TLV5626CD
TLV5626ID
TLV5626IDR
TLV5636CD
TLV5637CD
TLV5637CDG4
TLV5638CD
TMP124AID
TPA112D
TPA122D
TPA152D
TPA311DR
TPA4861D
TPA4861DR
TPA4861DRG4
TPA6100A2D
TPA721D
TPA721DR
TPA741DR
TPS1101D
TPS2010D
TPS2010DR
TPS2011D
TPS2051D
TPS2051DR
TPS2056AD
TPS2067D
TPS2080D
TPS2080DR
TPS2375D
TPS2376D
TPS2811D
TPS2813DR
TPS2832DR
TPS3305-18DR

TPS3305-25D
TPS3305-25DR
TPS3305-33D
TPS3306-15DR
TPS3306-18D
TPS3306-18DR
TPS3306-25D
TPS3306-33D
TPS3307-18D
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TPS3307-33DG4
TPS3307-33DRG4
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TPS7201QD
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TPS7250QDR
TPS7325QD
TPS7350QDR
TPS7433D
TPS76501DR
TPS76518DR
TPS76533DR
TPS76601D
TPS76618D
TPS76633D
TPS76701QD
TPS76815QDR
TPS77501D
TPS77515D
TPS77518DR
TPS77525D
TPS77533D
TPS77601D
TPS77601DR
TPS77615D
TPS77633DR
TPS77718DR
TPS77833D
CDC391D

SN65LVDS100D
THS4012CDR
TL1451ACD
TLC072CDR
TLC074CDR
TLE2072IDR
TLE2141CD
TLV2434CDR
TLV2472CD
TLV2544ID
TLV5618ACDR
TPS2048AD
TPS2048ADR
TPS76628D
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ADS7817UC/2K5
SN10501D
SN10503D
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SN65HVD34D
SN65HVD34DR
SN65HVD35D
SN65HVD37D
SN65HVD37DR
SN65HVD53D
SN65LVDM050DR
SN65LVDM051D
SN65LVDM051DR
SN65LVDM179DR
SN65LVDM31DR
SN65LVDS122D
SN65LVDS179DR
SN65LVDS180DR
SN65LVDS22DR
SN65LVDS3486BD
SN65LVDS3487DR
SN65LVDT101DR
SN65LVDT122D
SN65LVDT32BD
SN65LVDT33D
SN65LVDT3486BD
SN65LVDT348D
SN65LVDT34DR
SN65MLVD047AD
SN65MLVD047ADR
SN65MLVD047D
SN75LBC175DR
SN75LVDS391D
TB3R1LD
TB5D2HDR
THS3061DR

THS3111CDG4
THS3111IDR
THS3112CD
THS3120ID
THS3122CD
THS3202D
THS4001ID
THS4012CD
THS4012ID
THS4021CD
THS4032ID
THS4041ID
THS4042CD
THS4042ID
THS4051ID
THS4052CD
THS4052CDR
THS4061CD
THS4061CDR
THS4061ID
THS4081CDR
THS4082CD
THS4130ID
THS4131CDR
THS4131IDR
THS4140CD
THS4211D
THS4222D
THS4222DR
THS4271D
THS4271DR
THS4275D
THS4304D
THS4500CD
THS4502CD
THS4502ID
THS4502IDR
THS6052ID
THS6062CD
THS6062ID
THS6072IDG4
TL3016IDR
TL3016IDRG4
TL3116ID
TLC04CD
TLC04ID
TLC071IDR
TLC074AID
TLC082AIDR
TLC0831ID
TLC0832CDR

TLC0834CD
TLC084ID
TLC085AID
TLC085AIDR
TLC1078CD
TLC1078CDR
TLC1514ID
TLC1549CDR
TLC2201AIDR
TLC2201CDR
TLC2202AID
TLC251ACD
TLC254BCD
TLC2552ID
TLC2555ID
TLC25L2ACD
TLC25L2BCD
TLC25L2CDR
TLC2652AC-8D
TLC2652I-8D
TLC2652I-8DR
TLC2654AI-8D
TLC27L1CDR
TLC27L2BIDRG4
TLC27L7CD
TLC27L7CDR
TLC3545ID
TLC4501AID
TLC4501ID
TLC4545ID
TLC4545IDR
TLC548ID
TLC556CDG4
TLC5620CDRG4
TLC7524EDR
TLC7701QD
TLC7701QDR
TLC7703IDG4
TLC7703IDR
TLC7725QD
TLE2021ACD
TLE2021ACDR
TLE2037CDR
TLE2061ID
TLE2062AIDG4
TLE2064ACDR
TLE2064IDR
TLE2081ACD
TLE2081ACDR
TLE2082ACDR
TLE2082AIDR

TLE2141ID
TLE2161AIDR
TLV0831CD
TLV0831CDR
TLV0834CD
TLV1544ID
TLV1549CD
TLV1572CDR
TLV2242IDR
TLV2244CD
TLV2244IDR
TLV2262ID
TLV2264IDR
TLV2341ID
TLV2352IDR
TLV2354ID
TLV2401ID
TLV2401IDR
TLV2402CDR
TLV2402ID
TLV2404ID
TLV2404IDRG4
TLV2422AID
TLV2422CDR
TLV2432IDR
TLV2442AIDR
TLV2442CDR
TLV2444CD
TLV2444CDR
TLV2444ID
TLV2450AIDR
TLV2450CD
TLV2451AID
TLV2452AID
TLV2452IDR
TLV2454AIDR
TLV2454CD
TLV2455AID
TLV2461AIDR
TLV2461CDR
TLV2463CD
TLV2464CDR
TLV2465IDR
TLV2470AID
TLV2470CD
TLV2471IDR
TLV2472AIDR
TLV2473AID
TLV2474CDR
TLV2474IDG4
TLV2475CD

TLV2541ID
TLV2541IDR
TLV2542ID
TLV2771CDR
TLV2771ID
TLV2772AIDR
TLV2774ID
TLV2782CD
TLV2782ID
TLV2784AID
TLV2784ID
TLV4112CD
TLV5606CD
TLV5606ID
TLV5614ID
TLV5614IDR
TLV5616CD
TLV5621ED
TLV5621IDR
TLV5624CD
TLV5624IDR
TLV5625CD
TLV5625CDR
TLV5637ID
TLV5637IDR
TPA301DR
TPA311D
TPA321D
TPA731D
TPA731DR
TPPM0115D
TPS1100D
TPS1101DR
TPS1120D
TPS1120DR
TPS2013D
TPS2045DR
TPS2054D
TPS2054DR
TPS2056D
TPS2058AD
TPS2063D
TPS2063DR
TPS2081D
TPS2082D
TPS2082DR
TPS2082DRG4
TPS2085D
TPS2085DR
TPS2086D
TPS2087D

TPS2087DR
TPS2090D
TPS2091D
TPS2092D
TPS2092DR
TPS2097D
TPS2331ID
TPS2331IDR
TPS2377D
TPS2813D
TPS2832D
TPS3305-33DR
TPS3306-20D
TPS3306-33DR
TPS3707-25DR
TPS6734ID
TPS6734IDR
TPS6735ID
TPS71025D
TPS7133QDR
TPS7150QD
TPS7201QDR
TPS7230QD
TPS7330QD
TPS7348QD
TPS7350QD
TPS7418D
TPS76501D
TPS76515D
TPS76518D
TPS76533D
TPS76550D
TPS76615D
TPS76615DR
TPS76618DR
TPS76625D
TPS76628DR
TPS76630D
TPS76650DG4
TPS76718QD
TPS76730QD
TPS76815QD
TPS76825QD
TPS76850QDR
TPS77515DR
TPS77516D
TPS77525DR
TPS77615DR
TPS77701D
TPS77715D
TPS77725D

TPS77733D
TPS77733DR
TPS77801D
TPS77801DG4
TPS77801DR
TPS77815D
TPS77815DR
TPS77818D
TPS77825D
SN65LVDS051DR
SN65LVDS100DR
SN65LVDT348DR
THS3001CDRG4
TLC072CDG4
TLC082CDG4
TLC0831CDR
TLC14CDR
TLC2274ACDRG4
TLC372IDRG4
TLE2082CDRG4
TLV2432AIDR
TLV2451AIDR
TPS3305-18DRG4
TPS3705-50DRG4
TPS71025DRG4
TPS7150QDRG4
TPS7301QDG4
TPS7350QDRG4
TPS7425D
TPS76601DRG4
TPS77633DG4
TPS77701DRG4
TPS77801DRG4
TLC1079CDR
TLV0832IDR
TLV2434CD
TLV5617ACDG4
TPS2051DG4
THS3092D
TLC27L9CDR
TLE2161ID
SN75LVDT390D
THS3121ID
THS4150CD
TLC14CD
TLC27M2AIDG4
TLV2444AID
TLV2462IDR
TLV5636IDR
TPS2330ID
TPS76530D

TPS77628D
CDCVF25081DR
TLE2081IDR
TB3R2D
TLC25M2CDR
SN65HVD54DR
SN65LVDS9637DR
TLC274BIDRG4
TLC4502ACDR
TLC7733IDG4
TPS7250QDRG4
TPS3707-33DRG4
SN65LVDS9638DR
THS4041CD
THS4141CD
TLV2455ID
TLV2471ID
TLV2473CD
TPS76728QD
SN65LVCP22DR
CDC329ADG4
CDCVF2505DRG4
SN65LBC176ADG4
SN65LVDM051DG4
SN65LVDM176DG4
SN65LVDS047DG4
SN65LVDS3486BDG4
SN65LVDS3486DG4
SN65LVDS3487DG4
SN65LVDS9637BDG4
SN75LBC175DG4
SN75LBC175DRG4
THS3201DRG4
THS4001IDG4
THS4021IDG4
THS4031IDG4
THS4031IDRG4
THS4131CDG4
THS4221DG4
TLC074AIDRG4
TLC0831IDG4
TLC0832CDG4
TLC0834CDG4
TLC2202ACD
TLC2252IDRG4
TLC2254AIDG4
TLC2262AIDG4
TLC2264CDG4
TLC2272ACDG4
TLC2272AIDG4
TLC2274ACDG4

TLC2551IDG4
TLC2652AI-8DR
TLC274CDG4
TLC274IDG4
TLC277CDG4
TLC279CDRG4
TLC279IDRG4
TLC27L2ACDG4
TLC27L2CDRG4
TLC27L2IDG4
TLC27L7CDG4
TLC27L7IDRG4
TLC27M2BIDG4
TLC27M4AIDRG4
TLC27M4CDG4
TLC27M4CDRG4
TLC27M7CDG4
TLC3702CDG4
TLC372CDG4
TLC393IDRG4
TLC551CDG4
TLC555IDG4
TLC556IDG4
TLC5615IDG4
TLC7725IDG4
TLE2022AIDG4
TLE2062IDG4
TLE2064AIDG4
TLE2082CDG4
TLE2082IDG4
TLE2142CDG4
TLE2425CDRG4
TLE2426CDG4
TLV1572IDG4
TLV2252IDG4
TLV2452CDG4
TLV2452CDRG4
TLV2453CD
TLV2454IDG4
TLV2541IDG4
TLV2774AIDG4
TLV5606IDG4
TLV5618AIDG4
TLV5624IDG4
TLV5627CDG4
TLV5627ID
TLV5636IDRG4
TPA301DRG4
TPA4861DG4
TPA6102A2D
TPS2013DR

TPS3307-18DG4
TPS3705-33DG4
TPS3705-50DG4
TPS3707-33DG4
TPS76701QDR
TPS76718QDR
TPS77501DG4
THS4130IDR
TLE2141CDG4
THS3001IDR
TL3116IDRG4
TPS2056ADG4
SN65LVDS050DR
TLC2272AIDRG4

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

PCN Number:	20120808000			PCN Date:	08/24/2012
Title:	Qualification of Alternate Material Set for Assembly with Au Wire and Cu as Additional Wire Base Metal Option for Select SOIC Package Devices				
Customer Contact:	PCN_ww_admin_team@list.ti.com		Phone:	+1(214)480-6037	Dept: Quality Services
Proposed 1st Ship Date:		11/24/2012	Estimated Sample Availability:		Date provided at sample request.
Change Type:					
☐	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
PCN Details					
Description of Change:					
Qualification of an alternate material set for assembly with Au wire and add Cu as an additional wire base metal option for select devices in the SOIC package. See table below:					
Material set	Current Assembly Au wire	Alternate Assembly Au wire	Cu Bond wire option		
Mold compound	4205694	4211880	4211880		
Wire dia. (Mils)	0.8, 0.9, 0.96, 1.0, 1.15, 1.3	0.8, 0.9, 0.96, 1.0, 1.15, 1.3	0.96		
Qualification references are provided for further test data validation (See Qualification References Section).					
Reason for Change:					
Continuity of supply. 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 Fit, Form, Function, Quality or Reliability (positive / negative):					
None.					
Changes to product identification resulting from this PCN:					
None.					
Product Affected:					
Please see page two of this document for your list of PCN affected devices.					
Qualification Plan					
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 Schedule:	Start:	Aug 2012	End:	Oct 2012	

Qual Vehicle 1 : CDCVF25081DR (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4211880		
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4042500		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
		Lot#1	Lot#2	Lot#3	
Electrical Characterization	-	30/0	-	-	
**High Temp. Storage Bake	150C (500, 1000hrs)	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)	1/0	1/0	1/0	
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	-	-	
Notes ** - Preconditioning sequence: Level 1-260C.					
Qual Vehicle 2 : SN65HVD1050DR (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4211880		
# Pins-Designator, Family:	8-D, SOIC	Mount Compound:	4042500		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0			
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0			
Manufacturability	(per mfg. Site specification)	1/0			
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0			
Notes ** - Preconditioning sequence: Level 1-260C.					
Qual Vehicle 3 : TB3R2DR (MSL 2-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4211880		
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4042500		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
		Lot#1	Lot#2	Lot#3	
**High Temp. Storage Bake	150C (500, 1000hrs)	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)	1/0	1/0	1/0	
Moisture Sensitivity	(level 2 @ 260C peak +5/-0C)	12/0	-	-	
Notes ** - Preconditioning sequence: Level 2-260C.					

Qual Vehicle 4 : TLC3702CDR (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4211880		
# Pins-Designator, Family:	8-D, SOIC	Mount Compound:	4042500		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
		Lot#1	Lot#2	Lot#3	
**High Temp. Storage Bake	150C (500, 1000hrs)	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)	1/0	1/0	1/0	
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	-	-	
Notes ** - Preconditioning sequence: Level 1-260C.					
Qual Vehicle 5 : TPS2058AD (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TI Taiwan	Mold Compound:	4211880		
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4042500		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
		Lot#1	Lot#2		
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0		
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0		
Manufacturability	(per mfg. Site specification)	1/0	1/0		
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	-		
Notes ** - Preconditioning sequence: Level 1-260C.					
Qual Vehicle 6 : MAX232DR (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TI Malaysia	Mold Compound:	4211880		
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4211470		
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu		
Qualification: ☒ Plan ☐ Test Results					
Reliability Test	Conditions	Sample Size/Fail			
		Lot#1	Lot#2	Lot#3	
Steady-state Life Test	150C (168, 300 hrs)	77/0	77/0	77/0	
Electrical Characterization	-	30/0	-	-	
**High Temp. Storage Bake	170C (420hrs)	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	
Flammability	Method A - UL94-0	5/0	5/0	5/0	
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0	
Flammability	Method C - UL 1694	5/0	5/0	5/0	
Manufacturability	(per mfg. Site specification)	1/0	1/0	1/0	
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0	
Notes ** - Preconditioning sequence: Level 1-260C.					

Qual Vehicle 7 : RC4558DR (MSL 1-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4211880	
# Pins-Designator, Family:	8-D, SOIC	Mount Compound:	4211470	
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: ☒ Plan ☐ Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C (168, 300 hrs)	77/0	-	-
Electrical Characterization	-	30/0	-	-
**High Temp. Storage Bake	170C (420hrs)	77/0	-	-
**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	77/0	77/0
Flammability	Method A - UL94-0	5/0	-	-
Flammability	Method B - IEC 695-2-2	5/0	-	-
Flammability	Method C - UL 1694	5/0	-	-
Manufacturability	(per mfg. Site specification)	1/0	-	-
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes ** - Preconditioning sequence: Level 1-260C.				
Qual Vehicle 8 : SN74LV14ADR (MSL 1-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4211880	
# Pins-Designator, Family:	14-D, SOIC	Mount Compound:	4211470	
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: ☒ Plan ☐ Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C (168, 300 hrs)	77/0	-	-
Electrical Characterization	-	30/0	-	-
**High Temp. Storage Bake	170C (420hrs)	77/0	-	-
**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	77/0	77/0
Flammability	Method A - UL94-0	5/0	-	-
Flammability	Method B - IEC 695-2-2	5/0	-	-
Flammability	Method C - UL 1694	5/0	-	-
Manufacturability	(per mfg. Site specification)	1/0	-	-
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes ** - Preconditioning sequence: Level 1-260C.				
Qual Vehicle 9 : ULN2003ADR (MSL 1-260C)				
Package Construction Details				
Assembly Site:	TI Malaysia	Mold Compound:	4211880	
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4211470	
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	

Qualification: ☒ Plan ☐ Test Results		
Reliability Test	Conditions	Sample Size/Fail
Steady-state Life Test	150C (168, 300 hrs)	77/0
Electrical Characterization	-	30/0
**High Temp. Storage Bake	170C (420hrs)	77/0
**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
Manufacturability	(per mfg. Site specification)	1/0
Notes ** - Preconditioning sequence: Level 1-260C.		
Qualification Data: Approved 10/17/2011		
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 : CD4053BM96 (MSL 1-260C)		
Package Construction Details		
Assembly Site:	TI Mexico	Mold Compound: 4211880
# Pins-Designator, Family:	16-D, SOIC	Mount Compound: 4147858
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire: 0.96 Mil Dia., Cu
Qualification: ☐ Plan ☒ Test Results		
Reliability Test	Conditions	Sample Size/Fail
**Steady-state Life Test	150C (300 Hrs)	77/0
Electrical Characterization	-	Pass
**High Temp. Storage Bake	170C (600 Hrs)	77/0
**Biased HAST	130C/85%RH (192 Hrs)	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0
Visual / Mechanical	-	Pass
Lead Pull	# of leads to destruction, min. 3 units	22/0
Bond Strength	76 ball bonds, min. 3 units	76/0
Manufacturability	(per mfg. Site specification)	Pass
**Thermal Shock	-65C/+150C (500 Cyc)	77/0
X-ray	(Top-side only)	5/0
Moisture Sensitivity	(level 1 @ 260C peak +0/-5C)	12/0
Notes ** - Preconditioning sequence: Level 1-260C.		
Qual Vehicle 2 : LM358DR (MSL 1-260C)		
Package Construction Details		
Assembly Site:	TI Mexico	Mold Compound: 4211880
# Pins-Designator, Family:	8-D, SOIC	Mount Compound: 4147858
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire: 0.96 Mil Dia., Cu

Qualification: ☐ Plan ☒ Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C (168, 300 hrs)	77/0	-	-
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	170C (420hrs)	77/0	-	-
**Biased HAST	130C/85%RH (192 Hrs)	77/0	-	-
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Visual / Mechanical	-	Pass	-	-
Lead Pull	--	22/0	-	-
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
X-ray	(top side only)	5/0	-	-
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes ** - Preconditioning sequence: Level 1-260C.				
Qual Vehicle 3 : TL494IDR (MSL 1-260C)				
Package Construction Details				
Assembly Site:	TI Mexico	Mold Compound:	4211880	
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4147858	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: ☐ Plan ☒ Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C (168, 300 hrs)	77/0	77/0	77/0
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	170C (600hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (192 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
Visual / Mechanical	-	Pass	Pass	Pass
Lead Pull	--	22/0	22/0	22/0
Flammability	Method A - UL94-0	5/0	5/0	5/0
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0
Flammability	Method C - UL 1694	5/0	5/0	5/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
X-ray	(top side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes ** - Preconditioning sequence: Level 1-260C.				

Qual Vehicle 4 : ULN2003ADR (MSL 1-260C)				
Package Construction Details				
Assembly Site:	TI Mexico	Mold Compound:	4211880	
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	4147858	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
Qualification: ☐ Plan ☒ Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot# 1	Lot# 2	Lot# 3
**Steady-state Life Test	150C (300 Hrs)	77/0	-	-
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	170C (600 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (192 Hrs)	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
Visual / Mechanical	-	Pass	-	-
Lead Pull	--	22/0	22/0	22/0
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
**Thermal Shock	-65C/+150C (500 Cyc)	77/0	77/0	77/0
X-ray	(Top-side only)	5/0	5/0	5/0
Moisture Sensitivity	(level 1 @ 260C peak +0/-5C)	12/0	12/0	12/0
Notes ** - Preconditioning sequence: Level 1-260C.				

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