



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN# 20121218001**  
**Qualification of Alternate Material Set for Assembly with Au Wire**  
**and Cu as Additional Wire Base Metal Option for**  
**Select SOIC and SSOP Package Devices**  
**Change Notification / Sample Request**

**Date:** 12/21/2012  
**To:** MOUSER PCN

Dear Customer:

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

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days. The SOIC packages referenced to this PCN have been covered in prior PCNs, primarily PCN 20110608000 and PCN 20120808000. Results gathered from the prior PCN sample evaluations may help reduce the need for additional sample evaluation on this PCN.

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\\_admin\\_team@list.ti.com](mailto:PCN_admin_team@list.ti.com)).

Sincerely,

PCN Team  
SC Business Services  
Phone: +1(214) 480-6037  
Fax: +1(214) 480-6659

**20121218001**  
**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.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
74AC11000D	null
74AC11008D	null
74AC11074D	null
74AC11074DE4	null
74AC11138D	null
74ACT11000D	null
74ACT11008D	null
74ACT11286D	null
ADS7816U	null
ADS7816UB	null
ADS7816UCG4	null
ADS7822U	null
ADS7822UB	null
ADS7822UC	null
ADS7822UCG4	null
BQ2000SN-B5	null
BQ2000TSN-B5	null
BQ2002CSN	null
BQ2002DSN	null
BQ2002FSN	null
BQ2002FSNG4	null
BQ2002GSN	null
BQ2002TSN	null
BQ2002TSNG4	null
BQ2004ESN	null
BQ2004ESNG4	null
BQ2004HSN	null
BQ2004SN	null
BQ2018SN-E1	null
BQ2031SN-A5	null
BQ2057CSN	null
BQ2057CSNG4	null
BQ2057SN	null
BQ2057WSN	null
BQ2057WSNG4	null
BQ2201SN	null
BQ2201SNG4	null
BQ24400D	null
BQ24400DG4	null
BQ24401D	null
BQ2954SN	null
BQ2954SNG4	null
BQ32000DR	null
BUF602ID	null
CD74AC00M	null
CD74AC00ME4	null
CD74AC02M	null
CD74AC02M96	null
CD74AC04M	null
CD74AC04M96	null
CD74AC04M96E4	null

CD74AC05M	null
CD74AC05M96	null
CD74AC08M	null
CD74AC08M96	null
CD74AC08M96E4	null
CD74AC109M96	null
CD74AC10M	null
CD74AC112M	null
CD74AC112ME4	null
CD74AC138M	null
CD74AC138M96	null
CD74AC139M	null
CD74AC14M	null
CD74AC14M96	null
CD74AC14M96E4	null
CD74AC151M96	null
CD74AC153M	null
CD74AC153M96	null
CD74AC157M	null
CD74AC161M	null
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CD74AC163M	null
CD74AC164M	null
CD74AC164M96	null
CD74AC174M	null
CD74AC175M	null
CD74AC175M96G4	null
CD74AC20M	null
CD74AC20M96	null
CD74AC238M96	null
CD74AC238M96E4	null
CD74AC251M	null
CD74AC253M	null
CD74AC280M	null
CD74AC280M96	null
CD74AC283M	null
CD74AC32M96	null
CD74AC74M	null
CD74AC74M96	null
CD74AC74M96E4	null
CD74AC74ME4	null
CD74AC86M96E4	null
CD74AC86MG4	null
CD74ACT00M	null
CD74ACT00M96	null
CD74ACT00MG4	null
CD74ACT02M	null
CD74ACT02M96	null
CD74ACT04M	null
CD74ACT05M	null
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CD74ACT10M	null
CD74ACT10M96	null
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CD74ACT175M	null
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CD74ACT253M	null
CD74ACT257M	null
CD74ACT257M96	null
CD74ACT32M96	null
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CD74ACT32ME4	null
CD74ACT74M	null
CD74ACT74M96	null
CD74ACT74M96E4	null
CD74ACT86M	null
CD74ACT86M96	null
CY74FCT257ATD	null
DRV103U	null
INA155U	null
INA155UA	null
INA200AID	null
INA201AID	null
INA201AIDG4	null
INA202AID	null
INA206AID	null
INA206AIDG4	null
INA208AID	null
INA282AID	null
INA283AID	null
LMV324ID	null
LMV324IDR	null
LMV324QD	null
LMV324QDG4	null
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LMV339ID	null
LMV339IDR	null
LMV342ID	null
LMV344IDR	null
LMV358ID	null
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LMV358IDRG4	null
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LMV722IDG4	null
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OPA2333AIDR	null
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OPA2336UA	null
OPA2337UA	null
OPA2338UA	null
OPA2342UA	null
OPA2342UAG4	null
OPA2343UA	null
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OPA2345UA	null
OPA2345UAG4	null
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OPA2348AID	null
OPA2349UA	null
OPA2349UAG4	null
OPA2353UA	null
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OPA3355UAG4	null
OPA336U	null
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OPA337UAG4	null
OPA338UA	null
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OPA353UA	null
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OPA365AID	null
OPA374AID	null
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OPA380AID	null
OPA380AIDG4	null
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OPA4743UAG4	null
OPA4872ID	null
OPA615ID	null
OPA704UA	null
OPA734AID	null
OPA735AID	null
OPA735AIDG4	null
OPA743UA	null
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OPA861ID	null
OPA890ID	null
PCA9536D	null
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PCA9543AD	null
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PCA9543ADR	null
PCA9546AD	null
PCA9546ADG4	null
PCA9546ADR	null
PCA9557D	null
PCM1680DBQ	null
PCM1680DBQG4	null
PCM1725U	null
PCM1733U	null
PCM1744U	null
PCM1801U	null
REG101UA-2.5	null
REG101UA-2.5G4	null
REG101UA-3	null
REG101UA-3.3	null
REG101UA-5	null
REG101UA-A	null
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REG102UA-3.3	null
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REG102UA-5	null
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REG103UA-3.3	null
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REG103UA-A	null
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SN65HVD1050DR	null
SN65HVD1780D	null
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SN65HVD1781DG4	null

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SN65HVD1786D	null
SN65HVD1786DR	null
SN65HVD1787D	null
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SN65HVD253D	null
SN65HVD255D	null
SN65HVD256D	null
SN65HVD61D	null
SN65HVD78D	null
SN65HVD96D	null
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SN74ALVC08D	null
SN74ALVC08DR	null
SN74ALVC08DRE4	null
SN74ALVC125D	null
SN74ALVC125DR	null
SN74ALVC14DR	null
SN74ALVC32DR	null
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SN74AVC4T245DG4	null
SN74AVC4T245DR	null



SN74BCT125AD	null
SN74CBT3251D	null
SN74CBT3251DE4	null
SN74CBT3253CD	null
SN74CBT3253CDR	null
SN74CBT3253D	null
SN74CBT3257CDR	null
SN74CBT3257DR	null
SN74CBT3305CDR	null
SN74CBT3306D	null
SN74CBTD3306DR	null
SN74CBTLV3125DR	null
SN74CBTLV3126DE4	null
SN74CBTLV3126DR	null
SN74CBTLV3251D	null
SN74CBTLV3251DG4	null
SN74CBTLV3253D	null
SN74CBTLV3253DG4	null
SN74CBTLV3253DR	null
SN74CBTLV3257D	null
SN74CBTLV3257DR	null
SN74HC02DRE4	null
SN74HC165DRE4	null
SN74HC4851D	null
SN74HC4852D	null
SN74HC4852DR	null
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SN74HC595DRG4	null
SN74LV04ADR	null
SN74LV06ADR	null
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SN74LV125ATDR	null
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SN74LV21ADG4	null
SN74LV21ADR	null
SN74LV32AD	null
SN74LV32ADR	null
SN74LV393AD	null
SN74LV393ADR	null
SN74LV4040AD	null
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SN74LVC139ADR	null
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SN74LVC157ADR	null
SN74LVC32AD	null
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SN74LVC86AD	null
SN74LVC86ADR	null
SN74LVCU04AD	null

SN74LVCU04ADR	null
SN74LVT125D	null
SN74LVT125DG4	null
SN74LVTH125D	null
SN74LVTH125DR	null
SN74LVTH125DRE4	null
SN74LVTH126D	null
SN74LVTH126DR	null
SN75LBC179D	null
SN75LBC180D	null
SN75LBC180DG4	null
SN75LVDS31D	null
SN75LVDS32D	null
TL971ID	null
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TL972ID	null
TL974ID	null
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TLC271BID	null
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TLC271CD	null
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TLC271IDR	null
TLC272ACD	null
TLC272ACDR	null
TLC272AID	null
TLC272CD	null
TLC272CDR	null
TLC272ID	null
TLC272IDR	null
TLC274ACD	null
TLC274ACDG4	null
TLC274ACDR	null
TLC274AIDR	null
TLC274BCD	null
TLC274BCDG4	null
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TLC274CD	null
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TLC274IDR	null
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TLC27L4AID	null
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TLC27L4ID	null
TLC27L4IDR	null
TLC339IDR	null
TLC352ID	null
TLC3702ID	null
TLC3702IDG4	null
TLC3702IDR	null
TLC374CD	null
TLC374CDG4	null
TLC393CD	null

TLC393CDR	null
TLC548CD	null
TLC549CD	null
TLC549ID	null
TLC555CDR	null
TLC555CDRG4	null
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TLC5916IDG4	null
TLC5916IDR	null
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TLV342IDR	null
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TLV5638IDG4	null
TMP175AID	null
TMP175AIDR	null
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TMP275AIDG4	null
TMP411AD	null
TPA6111A2D	null
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TPS2030D	null
TPS2350D	null
TPS2412D	null
TPS2413D	null
TPS2812D	null
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TS5L100DR	null
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TXB0104DR	null
TXS0104ED	null
TXS0104EDR	null
UC2836D	null
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UCC25705D	null
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UCC27524D	null
UCC27525D	null
UCC2800D	null
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UCC2802DTR	null
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UCC2804D	null
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UCC28060D	null
UCC28060DG4	null
UCC28061D	null
UCC28061DG4	null
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UCC2807D-1G4	null
UCC2807D-2	null
UCC28083D	null
UCC28083DG4	null
UCC28084D	null
UCC28086D	null
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UCC2808AD-2	null
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UCC2808D-1	null
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UCC2808D-2	null
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UCC28C45DR	null
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UCC3580D-1G4	null
UCC3580D-2	null
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UCC3583D	null
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UCC3802D	null
UCC3803D	null
UCC3803DG4	null
UCC3804D	null
UCC3804DG4	null
UCC3805D	null
UCC3805DG4	null
UCC3807D-1	null
UCC3807D-2	null
UCC3807D-3	null
UCC3807D-3G4	null
UCC38083D	null
UCC38083DG4	null
UCC38084D	null
UCC38084DG4	null
UCC38086D	null
UCC3808AD-1	null
UCC3808AD-1G4	null
UCC3808AD-2	null
UCC3808D-1	null
UCC3808D-2	null
UCC3809D-1	null
UCC3809D-2	null
UCC3813D-0	null
UCC3813D-1	null
UCC3813D-2	null
UCC3813D-2G4	null
UCC3813D-3	null
UCC3813D-4	null
UCC3817D	null

UCC3818AD	null
UCC3818D	null
UCC3837D	null
UCC3884D	null
UCC3884DG4	null
UCC3889D	null
UCC38C40D	null
UCC38C41D	null
UCC38C42D	null
UCC38C43D	null
UCC38C43DG4	null
UCC38C43DR	null
UCC38C44D	null
UCC38C44DG4	null
UCC38C45D	null
UCC39002D	null
UCC39002DG4	null
UCC3946D	null
VCA820ID	null
VCA821ID	null
VCA822ID	null
VCA824ID	null

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

<b>PCN Number:</b>	20121218001		<b>PCN Date:</b>	12/21/2012																	
<b>Title:</b>	Qualification of Alternate Material Set for Assembly with Au Wire and Cu as Additional Wire Base Metal Option for Select SOIC and SSOP Package Devices																				
<b>Customer Contact:</b>	PCN_ww_admin_team@list.ti.com	<b>Phone:</b>	+1(214)480-6037	<b>Dept:</b>	Quality Services																
<b>Proposed 1<sup>st</sup> Ship Date:</b>	03/21/2013																				
<b>Change Type:</b>																					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials																
<b>PCN Details</b>																					
<b>Description of Change:</b>																					
<p>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 and SSOP package. See table below:</p> <table border="1"> <thead> <tr> <th>Material set</th> <th>Current Assembly Au wire</th> <th>Alternate Assembly Au wire</th> <th>Cu Bond wire option</th> </tr> </thead> <tbody> <tr> <td><b>Leadframe thickness (mils)</b></td> <td>8</td> <td>6</td> <td>6</td> </tr> <tr> <td><b>Mold compound</b></td> <td>4205694</td> <td>4211880</td> <td>4211880</td> </tr> <tr> <td><b>Wire dia. (Mils)</b></td> <td>0.8, 0.96, 1.15, 1.3, 1.98</td> <td>0.8, 0.96, 1.15, 1.3, 1.98</td> <td>0.8, 0.96, 1.3, 1.98</td> </tr> </tbody> </table> <p>Qualification references are provided for further test data validation (See Qualification References Section).</p> <p>The devices in the Product Affected Group list are being qualified by similarity. These package Qualifications and devices in these families have been covered in prior PCN's, primarily PCN 20110608000 and PCN 20120808000. The purpose of this PCN is to convert additional devices in the same package families to Cu wire.</p>						Material set	Current Assembly Au wire	Alternate Assembly Au wire	Cu Bond wire option	<b>Leadframe thickness (mils)</b>	8	6	6	<b>Mold compound</b>	4205694	4211880	4211880	<b>Wire dia. (Mils)</b>	0.8, 0.96, 1.15, 1.3, 1.98	0.8, 0.96, 1.15, 1.3, 1.98	0.8, 0.96, 1.3, 1.98
Material set	Current Assembly Au wire	Alternate Assembly Au wire	Cu Bond wire option																		
<b>Leadframe thickness (mils)</b>	8	6	6																		
<b>Mold compound</b>	4205694	4211880	4211880																		
<b>Wire dia. (Mils)</b>	0.8, 0.96, 1.15, 1.3, 1.98	0.8, 0.96, 1.15, 1.3, 1.98	0.8, 0.96, 1.3, 1.98																		
<b>Reason for Change:</b>																					
<p>Continuity of supply.</p> <ol style="list-style-type: none"> <li>1) To align with world technology trends and use wiring with enhanced mechanical and electrical properties</li> <li>2) Maximize flexibility within our Assembly/Test production sites.</li> <li>3) Cu is easier to obtain and stock</li> </ol>																					
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>																					
None.																					
<b>Changes to product identification resulting from this PCN:</b>																					
None.																					



<b>Product Affected:</b>				
Please see page two of this document for your list of PCN affected devices.				
<b>Qualification Data: Approved 09/19/2012</b>				
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.				
<b>Qual Vehicle 1 : MAX232DR (MSL 1-260C)</b>				
<b>Package Construction Details</b>				
Assembly Site:	TIM	Mold Compound:	4211880	
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	40402500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
<b>Qualification:</b> <input type="checkbox"/> Plan <input checked="" type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
Electrical Characterization	-	Pass	-	-
**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
Life Test	150C (300 Hrs)	77/0	77/0	77/0
Lead Pull	--	22/0	22/0	22/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Flammability	(IEC 695-2-2)	5/0	5/0	5/0
Flammability	(UL-1694)	5/0	5/0	5/0
Flammability	(UL 94V-0)	5/0	5/0	5/0
Manufacturability	(per mfg. Site specification)	Pass	Pass	Pass
Moisture Sensitivity	(level 1 @ 260C peak +5/-0C)	12/0	12/0	12/0
Notes    ** - Preconditioning sequence: Level 1-260C.				
<b>Qual Vehicle 2 : RC4558DR (MSL 1-260C)</b>				
<b>Package Construction Details</b>				
Assembly Site:	TIM	Mold Compound:	4211880	
# Pins-Designator, Family:	8-D, SOIC	Mount Compound:	40402500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	

<b>Qualification:</b> <input type="checkbox"/> <b>Plan</b> <input checked="" type="checkbox"/> <b>Test Results</b>				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot #3
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	150C (1000hrs)	77/0	77/0	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
Life Test	150C (300 Hrs)	77/0	-	-
Lead Pull	--	22/0	-	-
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Flammability	(IEC 695-2-2)	5/0	-	-
Flammability	(UL-1694)	5/0	-	-
Flammability	(UL 94V-0)	5/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
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.				
<b>Qual Vehicle 3 : SN74LV14ADR (MSL 1-260C)</b>				
<b>Package Construction Details</b>				
Assembly Site:	TIM	Mold Compound:	4211880	
# Pins-Designator, Family:	14-D, SOIC	Mount Compound:	40402500	
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire:	0.96 Mil Dia., Cu	
<b>Qualification:</b> <input type="checkbox"/> <b>Plan</b> <input checked="" type="checkbox"/> <b>Test Results</b>				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot #3
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	150C (1000hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
Life Test	150C (300 Hrs)	77/0	-	-
Lead Pull	--	22/0	-	-
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Flammability	(IEC 695-2-2)	5/0	-	-
Flammability	(UL-1694)	5/0	-	-
Flammability	(UL 94V-0)	5/0	-	-
Manufacturability	(per mfg. Site specification)	Pass	-	-
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 4 : ULN2003ADR (MSL 1-260C)					
Package Construction Details					
Assembly Site:	TIM	Mold Compound:	4211880		
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:	40402500		
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/Fail			
		Lot#1	Lot#2	Lot#3	
Electrical Characterization	-	Pass	-	-	
**High Temp. Storage Bake	170C 420hrs)	77/0	77/0	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	
Life Test	150C (300 Hrs)	77/0	-	-	
Lead Pull	--	22/0	-	-	
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-	
Flammability	(IEC 695-2-2)	5/0	-	-	
Flammability	(UL-1694)	5/0	-	-	
Flammability	(UL 94V-0)	5/0	-	-	
Manufacturability	(per mfg. Site specification)	Pass	-	-	
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 5 : 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: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> 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 6 : 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: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> 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 7 : 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: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> 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 8 : 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: <input type="checkbox"/> Plan <input checked="" type="checkbox"/> 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	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>