



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
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 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
ADS7817U	null
ADS7817UB	null
ADS7817UC	null
CDC328AD	null
CDC329AD	null
CDC391D	null
CDCVF2505D	null
CDCVF25081D	null
INA270AID	null
INA270AIDR	null
INA271AID	null
INA271AIDR	null
OPA1632D	null
OPA1632DG4	null
SN10501D	null
SN10502D	null
SN10502DG4	null
SN10503D	null
SN65CML100D	null
SN65HVD1040D	null
SN65HVD1040DG4	null
SN65HVD1040DR	null
SN65HVD1050D	null
SN65HVD1050DG4	null
SN65HVD1050DR	null
SN65HVD33D	null
SN65HVD33DG4	null
SN65HVD33DR	null
SN65HVD34D	null
SN65HVD34DR	null
SN65HVD35D	null
SN65HVD35DG4	null
SN65HVD35DR	null
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SN65HVD53D	null
SN65HVD53DR	null
SN65HVD54D	null
SN65HVD55D	null
SN65HVD55DR	null
SN65LBC173D	null
SN65LBC175D	null

SN65LBC175DG4	null
SN65LBC176AD	null
SN65LBC176ADG4	null
SN65LBC176ADR	null
SN65LBC176D	null
SN65LBC176DR	null
SN65LBC182D	null
SN65LVCP22D	null
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SN65LVDM051D	null
SN65LVDM051DG4	null
SN65LVDM176D	null
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SN65LVDM180D	null
SN65LVDM22D	null
SN65LVDM31D	null
SN65LVDM31DG4	null
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SN65LVDS3486D	null
SN65LVDS3487D	null
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SN65LVDT34DG4	null
SN65LVDT390D	null
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SN65LVDT9637BDG4	null
SN65MLVD047AD	null
SN65MLVD047D	null
SN75LBC173D	null
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SN75LBC176D	null
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SN75LVDS051DG4	null
SN75LVDS390DG4	null
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SN75LVDS9637D	null
SN75LVDS9638D	null
SN75LVDT390D	null
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TB5D1MDE4	null
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TB5R3D	null
TB5T1D	null
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THS3202D	null
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TLC084AID	null
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TLC085AID	null
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TLC2652AC-8D	null
TLC2652AI-14D	null
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TLC3704IDR	null
TLC372CD	null
TLC372CDR	null
TLC372ID	null
TLC372IDR	null
TLC374ID	null
TLC393ID	null
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TLC4501AID	null
TLC4502ACD	null
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TLC4502CDG4	null
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TLC4545ID	null
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TLC552CD	null
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TLC5620CDG4	null
TLC5620ID	null
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TLC7524ED	null
TLC7524ID	null
TLC7524IDG4	null
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TLC7701IDR	null
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TLC7703ID	null
TLC7703IDG4	null
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TLE2037CD	null
TLE2037CDG4	null
TLE2037ID	null
TLE2061ACD	null
TLE2061AID	null
TLE2061AIDG4	null
TLE2061CD	null

TLE2061CDG4	null
TLE2061ID	null
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TLE2082ACD	null
TLE2082ACDG4	null
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TLE2082CD	null
TLE2082CDG4	null
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TLE2082IDR	null
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TLE2142CDG4	null
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TLE2142IDG4	null
TLE2142IDR	null
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TPA152D	null
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TPA721DG4	null
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TPS3305-25D	null
TPS3305-33D	null
TPS3305-33DG4	null
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TPS3307-33DR	null
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TPS3705-33D	null
TPS3705-33DR	null
TPS3705-50D	null
TPS3705-50DG4	null
TPS3705-50DR	null
TPS3707-25D	null
TPS3707-30D	null
TPS3707-33D	null
TPS3707-50D	null
TPS6734ID	null
TPS6734IDG4	null
TPS6734IDR	null
TPS6735ID	null
TPS6735IDG4	null

TPS6755ID	null
TPS7101QD	null
TPS7101QDR	null
TPS71025D	null
TPS7133QD	null
TPS7150QD	null
TPS7150QDG4	null
TPS7201QD	null
TPS7201QDR	null
TPS7225QD	null
TPS7230QD	null
TPS7233QD	null
TPS7250QD	null
TPS7250QDR	null
TPS7301QD	null
TPS7301QDR	null
TPS7325QD	null
TPS7330QD	null
TPS7333QD	null
TPS7333QDR	null
TPS7350QD	null
TPS7415D	null
TPS7425D	null
TPS7433D	null
TPS76501D	null
TPS76515D	null
TPS76518D	null
TPS76530D	null
TPS76533D	null
TPS76550D	null
TPS76601D	null
TPS76618D	null
TPS76625D	null
TPS76630D	null
TPS76633D	null
TPS76633DR	null
TPS76650D	null
TPS76650DR	null
TPS76701QD	null
TPS76715QD	null
TPS76718QD	null
TPS76718QDG4	null
TPS76725QD	null
TPS76725QDG4	null
TPS76727QD	null
TPS76728QD	null
TPS76733QD	null
TPS76733QDG4	null
TPS76750QD	null
TPS76801QD	null
TPS76801QDG4	null

TPS76815QD	null
TPS76818QD	null
TPS76825QD	null
TPS76830QD	null
TPS76833QD	null
TPS76850QD	null
TPS77501D	null
TPS77515D	null
TPS77518D	null
TPS77525D	null
TPS77533D	null
TPS77533DG4	null
TPS77601D	null
TPS77601DG4	null
TPS77615D	null
TPS77618D	null
TPS77625D	null
TPS77633D	null
TPS77701D	null
TPS77718D	null
TPS77725D	null
TPS77733D	null
TPS77801D	null
TPS77818D	null
TPS77825D	null
TPS77833D	null

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:					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> 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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> Test Results				
Reliability Test	Conditions	Sample Size/Fail		
		Lot#1	Lot#2	Lot#3
**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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> 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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> 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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> 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: <input checked="" type="checkbox"/> Plan <input 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	-	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: <input checked="" type="checkbox"/> Plan <input 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	-	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: <input checked="" type="checkbox"/> Plan <input 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	-	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: <input checked="" type="checkbox"/> Plan <input type="checkbox"/> 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: <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 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: <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 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: <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	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com