

<b>PCN Number:</b>	20130624000B			<b>PCN Date:</b>	11/25/2013												
<b>Title:</b>	Add Cu as Alternative Wire Base Metal for Selected Device(s) on SOT23 (DBV) and VSSOP (DGK, DGS, DGQ) packages																
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Phone:</b>	+1(214)480-6037	<b>Dept:</b>	Quality Services												
<b>Change Type:</b>																	
<input type="checkbox"/>	Assembly Site	<input checked="" 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												
<b>PCN Details</b>																	
<b>Description of Change:</b>																	
Revision B is to make correction on the following:																	
(a) Remove select devices in the Product Affected Section (with <del>strikethrough</del> ) and highlighted in yellow. These devices were inadvertently added and not affected by this change.																	
(b) Add TS321IDBVR device for this change under Product Affected Group 2 and highlighted in yellow.																	
Devices in the Product Affected Section (with <del>strikethrough</del> ) and no highlight were retracted under Revision A of this PCN.																	
Texas Instruments is pleased to announce the qualification of Cu as an additional bond wire option for devices listed in "Product affected" section below. Devices will remain in current assembly facility and Material differences are shown in the following table:																	
<ul style="list-style-type: none"> <li>Group 1 – Devices that will have Au wire to Cu wire change only</li> <li>Group 2 – Devices that will have the following change</li> </ul>																	
<table border="1"> <thead> <tr> <th></th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><b>Wire</b></td> <td>Au</td> <td>Cu</td> </tr> <tr> <td><b>Mold Compound</b></td> <td>R-13</td> <td>R-17</td> </tr> <tr> <td><b>Leadframe Finish</b></td> <td>NiPdAu</td> <td>Matte Sn</td> </tr> </tbody> </table>							From	To	<b>Wire</b>	Au	Cu	<b>Mold Compound</b>	R-13	R-17	<b>Leadframe Finish</b>	NiPdAu	Matte Sn
	From	To															
<b>Wire</b>	Au	Cu															
<b>Mold Compound</b>	R-13	R-17															
<b>Leadframe Finish</b>	NiPdAu	Matte Sn															
Upon expiration of this PCN, devices in Group 2 (package code DBV), TI will combine lead free solutions in a single <b><u>standard part number</u></b> , for example; <b><u>HPA00283DBVR</u></b> – can ship with both Matte Sn and NiPdAu.																	
<b>Reason for Change:</b>																	
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																	
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>																	
None.																	

**Changes to product identification resulting from this PCN:**

**Sample Product Shipping Label (not actual product label)**

Assembly Site

NFME	Assembly Site Origin (22L)	ASO:NFME	ECAT:G4
NFME	Assembly Site Origin (22L)	ASO: NFME	ECAT:G3

**Sample product shipping label to show code location only (not actual product label)**

ECAT: G4 = NiPdAu  
ECAT: G3 = Matte Sn

TEXAS INSTRUMENTS  
MADE IN: Malaysia  
2DC: 2d:  
MSL 2 /260C/1 YEAR SEAL DT  
MSL 1 /235C/UNLIM 03/29/04  
OPT:  
ITEM: 39  
LBL: 5A (L)T0:1750

(1P) SN74LS07NSR  
(Q) 2000 (D) 0336  
(31T) LOT: 3959047MLA  
(4W) TKY (1T) 7523483SI2  
(P)  
(2P) REV: (V) 0033317  
(20L) CSO: SHE (21L) CCO:USA  
(22L) ASO: MLA (23L) ACO: MYS

**Product Affected: Group 1 – Devices that will have Au wire to Cu wire change only**

DAC7554IDGS	THS3111IDGNRG4	TLV2472CDGNRG4	TPS3305-33DGNR
DAC7554IDGSG4	THS3120CDGN	TLV2472IDGNR	TPS3305-33DGNRG4
DAC7554IDGSR	THS3120CDGNG4	TLV2472IDGNRG4	TPS3306-15DGK
DAC7554IDGSRG4	THS3120CDGNR	TLV2473CDGQR	TPS3306-15DGKG4
DAC8552IDGKR	THS3120CDGNRG4	TLV2473CDGQRG4	TPS3306-15DGKR
DAC8552IDGKRG4	THS3121IDGN	TLV2473IDGQR	TPS3306-15DGKRG4
DAC8552IDGKT	THS3121IDGNG4	TLV2473IDGQRG4	TPS3306-18DGK
DAC8552IDGKTG4	THS3202DGN	TLV2545IDGKR	TPS3306-18DGKG4
DRV8830DGQ	THS3202DGN4	TLV2545IDGKRG4	TPS3306-18DGKR
DRV8830DGQR	THS3202DGNR	TLV2622IDGKR	TPS3306-18DGKRG4
DRV8832DGQ	THS3202DGNRG4	TLV2622IDGKRG4	TPS3307-18DGN
DRV8832DGQR	THS4011CDGN	TLV272CDGK	TPS3307-18DGNG4
HPA00169DGNR	THS4011CDGNG4	TLV272CDGKG4	TPS3307-18DGNR
HPA00245DGSR	THS4011CDGNR	TLV272CDGKR	TPS3307-18DGNRG4
HPA00296DGSR	THS4011CDGNRG4	TLV272CDGKRG4	TPS3617-50DGKR
HPA00361DGNR	THS4022IDGN	TLV272IDGK	TPS3617-50DGKRG4
HPA00577DGN	THS4022IDGNG4	TLV272IDGKG4	TPS3619-33DGK
HPA00577DGNR	THS4022IDGNR	TLV272IDGKR	TPS3619-33DGKG4
HPA00657DGNR	THS4022IDGNRG4	TLV272IDGKRG4	TPS3619-33DGKR
HPA00659DGNR	THS4031CDGN	TLV2762IDGK	TPS3619-33DGKRG4
INA152EA/250	THS4031CDGNG4	TLV2762IDGKG4	TPS3620-33DGKR
INA152EA/250G4	THS4031CDGNR	TLV2762IDGKR	TPS3620-33DGKRG4
INA152EA/2K5	THS4031CDGNRG4	TLV2762IDGKRG4	TPS3620-33DGKT
INA152EA/2K5G4	THS4121CDGK	TLV2763IDGS	TPS3620-33DGKTG4
INA827AIDGK	THS4121CDGKG4	TLV2763IDGSG4	TPS3705-33DGN
INA827AIDGKR	THS4121CDGKR	TLV2763IDGSR	TPS3705-33DGNG4
OPA140AIDGKR	THS4121CDGKRG4	TLV2763IDGSRG4	TPS3705-33DGNR
OPA140AIDGKT	THS4121IDGK	TLV2770IDGKR	TPS3705-33DGNRG4
OPA141AIDGKR	THS4121IDGKG4	TLV2770IDGKRG4	TPS3707-30DGN
OPA141AIDGKT	THS4121IDGKR	TLV2772CDGK	TPS3707-30DGNG4
OPA1602AIDGK	THS4121IDGKRG4	TLV2772CDGKG4	TPS3707-30DGNR

OPA1602AIDGKR	THS4121IDGN	TLV2772CDGKR	TPS3707-30DGNRG4
OPA1632DGN	THS4121IDGNG4	TLV2772CDGKRG4	TPS3707-33DGN
OPA1632DGNG4	THS4121IDGNR	TLV2772IDGK	TPS3707-33DGNG4
OPA1632DGNR	THS4121IDGNRG4	TLV2772IDGKG4	TPS3707-33DGNR
OPA1632DGNRG4	THS4130CDGN	TLV2772IDGKR	TPS3707-33DGNRG4
OPA1641AIDGKR	THS4130CDGNG4	TLV2772IDGKRG4	TPS40000DGQ
OPA1641AIDGKT	THS4130CDGNR	TLV2782CDGK	TPS40000DGQG4
OPA1642AIDGKR	THS4130CDGNRG4	TLV2782CDGKG4	TPS40000DGQR
OPA1642AIDGKT	THS4140IDGN	TLV2782CDGKR	TPS40000DGQRG4
OPA1652AIDGK	THS4140IDGNG4	TLV2782CDGKRG4	TPS40001DGQ
OPA1652AIDGKR	THS4140IDGNR	TLV2782IDGK	TPS40001DGQG4
OPA1662AIDGK	THS4140IDGNRG4	TLV2782IDGKG4	TPS40001DGQR
OPA1662AIDGKR	THS4151CDGK	TLV2782IDGKR	TPS40001DGQRG4
OPA209AIDGKR	THS4151CDGKG4	TLV2782IDGKRG4	TPS53014DGS
OPA209AIDGKT	THS4211DGK	TLV27L2CDGK	TPS53014DGSR
OPA2140AIDGKR	THS4211DGKG4	TLV27L2CDGKG4	TPS53015DGS
OPA2140AIDGKT	THS4500IDGK	TLV27L2CDGKR	TPS53015DGSR
OPA2141AIDGKR	THS4500IDGKG4	TLV27L2CDGKRG4	TPS54229DGN
OPA2141AIDGKT	THS4500IDGN	TLV27L2IDGK	TPS54229DGNR
OPA2170AIDGK	THS4500IDGNG4	TLV27L2IDGKG4	TPS54229EDGN
OPA2170AIDGKR	THS4500IDGNR	TLV27L2IDGKR	TPS54229EDGNR
OPA2171AIDGK	THS4500IDGNRG4	TLV27L2IDGKRG4	TPS54240DGQ
OPA2171AIDGKR	THS4502CDGN	TLV3202AIDGK	TPS54240DGQR
OPA2180IDGK	THS4502CDGNG4	TLV3202AIDGKR	TPS60200DGS
OPA2180IDGKR	THS4502CDGNR	TLV3402CDGK	TPS60200DGSG4
OPA2209AIDGKT	THS4502CDGNRG4	TLV3402CDGKG4	TPS60200DGSR
OPA2313IDGK	THS4502IDGN	TLV3402CDGKR	TPS60200DGSRG4
OPA2313IDGKR	THS4502IDGNG4	TLV3402CDGKRG4	TPS60210DGS
OPA2314AIDGK	THS4502IDGNR	TLV3402IDGK	TPS60210DGSG4
OPA2348AIDGK	THS4502IDGNRG4	TLV3402IDGKG4	TPS60210DGSR
OPA2348AIDGKR	THS4503CDGN	TLV3702CDGKR	TPS60210DGSRG4
P82B96DGKR	THS4503CDGNG4	TLV3702CDGKRG4	TPS60500DGS
P82B96DGKRG4	THS4503CDGNR	TLV3702IDGK	TPS60500DGSG4
PCA9515BDGKR	THS4503CDGNRG4	TLV3702IDGKG4	TPS60500DGSR
PCA9517DGKR	THS4503IDGN	TLV4111IDGNR	TPS60500DGSRG4
PCA9517DGKRG4	THS4503IDGNG4	TLV4111IDGNRG4	TPS61010DGS
PCA9536DGKR	THS4503IDGNR	TLV4112CDGN	TPS61010DGSG4
PCA9536DGKRG4	THS4503IDGNRG4	TLV4112CDGNG4	TPS61010DGSR
SN1206048DGSR	THS4505DGN	TLV4112IDGN	TPS61010DGSRG4
SN2385CDCER	THS4505DGNG4	TLV4112IDGNG4	TPS62000DGSR
SN2385CDCERG4	THS4505DGNR	TLV4112IDGNR	TPS62000DGSRG4
SN65EPT21DGK	THS4505DGNRG4	TLV4112IDGNRG4	TPS62007DGS
SN65EPT21DGKR	THS4531AIDGK	TLV4113CDGQ	TPS62007DGSG4
SN65EPT23DGK	THS4531AIDGKR	TLV4113CDGQG4	TPS62007DGSR
SN65EPT23DGKR	THS4631DGN	TLV4113CDGQR	TPS62007DGSRG4
SN65HVD3080EDGS	THS4631DGNG4	TLV4113CDGQRG4	TPS62051DGS
SN65HVD3080EDGSG4	THS4631DGNR	TLV4113IDGQ	TPS62051DGSG4
SN65HVD3080EDGSR	THS4631DGNRG4	TLV4113IDGQG4	TPS62051DGSR
SN65HVD3080EDGSRG4	THS6072IDGNR	TLV4113IDGQR	TPS62051DGSRG4
SN65HVD3082EDGK	THS6072IDGNRG4	TLV4113IDGQRG4	TPS62054DGS
SN65HVD3082EDGKR	TLC071IDGNR	TPA0211DGN	TPS62054DGSG4

SN65HVD3083EDGS	TLC071IDGNRG4	TPA0211DGNG4	TPS62054DGSR
SN65HVD3083EDGSG4	TLC072CDGNR	TPA0211DGNR	TPS62054DGSRG4
SN65HVD3083EDGSR	TLC072CDGNRG4	TPA0211DGNRG4	TPS62056DGS
SN65HVD3083EDGSRG4	TLC072IDGN	TPA0213DGQR	TPS62056DGS4
SN65HVD3085EDGKR	TLC072IDGNG4	TPA0213DGQRG4	TPS62056DGSR
SN65HVD3085EDGKRG4	TLC072IDGNR	TPA0223DGQR	TPS62056DGSRG4
SN65HVD3086EDGS	TLC072IDGNRG4	TPA0223DGQRG4	TPS62080ADGN
SN65HVD3086EDGSG4	TLC073CDGQ	TPA0233DGQR	TPS62080ADGNR
SN65HVD3086EDGSR	TLC073CDGQG4	TPA0233DGQRG4	TPS62160DGKR
SN65HVD3086EDGSRG4	TLC073IDGQR	TPA301DGN	TPS62160DGKT
SN65HVD3088EDGK	TLC073IDGQRG4	TPA301DGNG4	TPS65552ADGQ
SN65HVD3088EDGKG4	TLC081CDGNR	TPA301DGNR	TPS65552ADGQG4
SN65HVD3088EDGKR	TLC081CDGNRG4	TPA301DGNRG4	TPS77133DGK
SN65HVD3088EDGKRG4	TLC081IDGNR	TPA311DGN	TPS77133DGKG4
SN65HVD485EDGKR	TLC081IDGNRG4	TPA311DGNG4	TPS77133DGKR
SN65HVD485EDGKRG4	TLC082IDGNR	TPA311DGNR	TPS77133DGKRG4
SN65HVD72DGK	TLC082IDGNRG4	TPA311DGNRG4	TPS77301DGK
SN65HVD72DGKR	TLC083IDGQ	TPA321DGNR	TPS77301DGKG4
SN65HVD75DGK	TLC083IDGQG4	TPA321DGNRG4	TPS77301DGKR
SN65HVD75DGKR	TLV2242IDGK	TPA6100A2DGK	TPS77301DGKRG4
SN65HVD78DGK	TLV2242IDGKG4	TPA6100A2DGKG4	TPS77401DGK
SN65HVD78DGKR	TLV2242IDGKR	TPA6100A2DGKR	TPS77401DGKG4
SN65LVDM176DGK	TLV2242IDGKRG4	TPA6100A2DGKRG4	TPS77401DGKR
SN65LVDM176DGKG4	TLV2372IDGK	TPA6110A2DGN	TPS77401DGKRG4
SN65LVDM176DGKR	TLV2372IDGKG4	TPA6110A2DGNG4	TPS77901DGK
SN65LVDM176DGKRG4	TLV2372IDGKR	TPA6110A2DGNR	TPS77901DGKG4
SN65LVDS100DGK	TLV2372IDGKRG4	TPA6110A2DGNRG4	TPS77901DGKR
SN65LVDS100DGKG4	TLV2373IDGS	TPA6111A2DGN	TPS77901DGKRG4
SN65LVDS100DGKR	TLV2373IDGSG4	TPA6111A2DGNG4	TPS79401DGNR
SN65LVDS100DGKRG4	TLV2373IDGSR	TPA6111A2DGNR	TPS79401DGNRG4
SN65LVDS179DGK	TLV2373IDGSRG4	TPA6111A2DGNRG4	TPS79401DGNT
SN65LVDS179DGKG4	TLV2402CDGK	TPA6112A2DGQ	TPS79401DGNTG4
SN65LVDS179DGKR	TLV2402CDGKG4	TPA6112A2DGQG4	TPS79418DGNR
SN65LVDS179DGKRG4	TLV2402CDGKR	TPA6112A2DGQR	TPS79418DGNRG4
SN65LVDS9637DGKR	TLV2402CDGKRG4	TPA6112A2DGQRG4	TPS79418DGNT
SN65LVDS9637DGKRG4	TLV2402IDGKR	TPA6211A1DGN	TPS79418DGNTG4
SN65LVDS9638DGKR	TLV2402IDGKRG4	TPA6211A1DGNG4	TPS79425DGNR
SN65LVDS9638DGKRG4	TLV2452CDGK	TPA6211A1DGNR	TPS79425DGNRG4
SN65LVDT100DGKR	TLV2452CDGKG4	TPA6211A1DGNRG4	TPS79425DGNT
SN65LVDT100DGKRG4	TLV2452CDGKR	TPA701DGN	TPS79425DGNTG4
SN65LVDT101DGK	TLV2452CDGKRG4	TPA701DGNG4	TPS79428DGNT
SN65LVDT101DGKG4	TLV2452IDGK	TPA701DGNR	TPS79428DGNTG4
SN65LVDT101DGKR	TLV2452IDGKG4	TPA701DGNRG4	TPS79430DGNR
SN65LVDT101DGKRG4	TLV2452IDGKR	TPA711DGN	TPS79430DGNRG4
SN65LVEL11DGKR	TLV2452IDGKRG4	TPA711DGNG4	TPS79430DGNT
SN65LVELT23DGKR	TLV2453CDGSR	TPA711DGNR	TPS79430DGNTG4
SN65LVEP11DGK	TLV2453CDGSRG4	TPA711DGNRG4	TPS79433DGNR
SN75HVD3082EDGKR	TLV2453IDGSR	TPA721DGN	TPS79433DGNRG4
SN75HVD3082EDGKRG4	TLV2453IDGSRG4	TPA721DGNG4	TPS79433DGNT
SNHVD3082EDGKG4	TLV2462CDGK	TPA721DGNR	TPS79433DGNTG4
SNHVD3082EDGKRG4	TLV2462CDGKG4	TPA721DGNRG4	TPS92510DGQ

TCA4311ADGKR	TLV2462CDGKR	TPA731DGN	TPS92510DGQR
TCA4311DGKR	TLV2462CDGKRG4	TPA731DGNG4	TS3A24159DGSR
TCA4311DGKRG4	TLV2462IDGK	TPA731DGNR	TS3A24159DGSRG4
TCA9509DGKR	TLV2462IDGKG4	TPA731DGNRG4	TS3A4742DGKR
TCA9517ADGKR	TLV2462IDGKR	TPA741DGNR	TS3A4742DGKRG4
TCA9517DGKR	TLV2462IDGKRG4	TPA741DGNRG4	TS3USB30EDGSR
THS3001IDGN	TLV2463CDGSR	TPD4S009DGSR	TS5A22362DGSR
THS3001IDGNG4	TLV2463CDGSRG4	TPS24700DGK	TS5A22362DGSRG4
THS3001IDGNR	TLV2463IDGS	TPS24700DGKR	TS5A22364DGSR
THS3001IDGNRG4	TLV2463IDGSG4	TPS24701DGK	TS5A22364DGSRG4
THS3111IDGN	TLV2463IDGSR	TPS24701DGKR	TS5A23159DGSR
THS3111IDGNG4	TLV2463IDGSRG4	TPS3305-33DGN	TS5A23159DGSRE4
THS3111IDGNR	TLV2472CDGSR	TPS3305-33DGNG4	TS5A23159DGSRG4

**Product Affected: Group 2 – Devices that will have wire, mold compound and lead finish change**

HPA00283DBVR	TL331KDBVT	TPS3809J25DBVT	TPS76050DBVR
HPA00500DBVR	TL343IDBVR	TPS3809K33DBVR	TPS76050DBVT
HPA00531DBVR	TL343IDBVT	TPS3809K33DBVT	TPS76201DBVR
HPA00532DBVR	TL431ACDBVR	TPS3809L30DBVR	TPS76201DBVT
HPA00834IDBVR	TL431ACDBVT	TPS3809L30DBVT	TPS76301DBVR
LP2981-28DBVR	TL431AIDBVR	TPS3813I50DBVR	TPS76301DBVT
LP2981-28DBVT	TL431AIDBVT	TPS3813I50DBVT	TPS76316DBVR
LP2981-29DBVR	TL431AQDBVR	TPS3813J25DBVR	TPS76316DBVT
LP2981-29DBVT	TL431AQDBVT	TPS3813J25DBVT	TPS76318DBVR
LP2981-30DBVR	TL431BCDBVR	TPS3813K33DBVR	TPS76318DBVT
LP2981-30DBVT	TL431BCDBVT	TPS3813K33DBVT	TPS76325DBVR
LP2981-33DBVR	TL431BIDBVR	TPS3813L30DBVR	TPS76325DBVT
LP2981-33DBVT	TL431BIDBVT	TPS3813L30DBVT	TPS76327DBVR
LP2981-50DBVR	TL431CDBVR	TPS3820-33DBVR	TPS76327DBVT
LP2981-50DBVT	TL431CDBVT	TPS3820-33DBVT	TPS76328DBVR
LP2981A-28DBVR	TL431IDBVR	TPS3820-50DBVR	TPS76328DBVT
LP2981A-28DBVT	TL431IDBVT	TPS3820-50DBVT	TPS76330DBVR
LP2981A-29DBVR	TL431QDBVR	TPS3823-25DBVR	TPS76330DBVT
LP2981A-29DBVT	TL431QDBVT	TPS3823-25DBVT	TPS76333DBVR
LP2981A-30DBVR	TL432ACDBVR	TPS3823-30DBVR	TPS76333DBVT
LP2981A-30DBVT	TL432AIDBVR	TPS3823-30DBVT	TPS76338DBVR
LP2981A-33DBVR	TL432CDBVR	TPS3823-33DBVR	TPS76338DBVT
LP2981A-33DBVT	TL432IDBVR	TPS3823-33DBVT	TPS76350DBVR
LP2981A-50DBVR	TLV1391CDBVR	TPS3823-50DBVR	TPS76350DBVT
LP2981A-50DBVT	TLV1391CDBVT	TPS3823-50DBVT	TPS76901DBVR
LP2985-10DBVR	TLV2361CDBVR	TPS3824-25DBVR	TPS76901DBVT
LP2985-10DBVT	TLV2361CDBVT	TPS3824-25DBVT	TPS76912DBVR
LP2985-18DBVR	TLV2361IDBVR	TPS3824-30DBVR	TPS76912DBVT
LP2985-18DBVT	TLV2361IDBVT	TPS3824-30DBVT	TPS76915DBVR
LP2985-25DBVR	TLV2371IDBVR	TPS3824-33DBVR	TPS76915DBVT
LP2985-25DBVT	TLV2371IDBVT	TPS3824-33DBVT	TPS76918DBVR
LP2985-28DBVR	TLV2460CDBVR	TPS3824-50DBVR	TPS76918DBVT
LP2985-28DBVT	TLV2460CDBVT	TPS3824-50DBVT	TPS76925DBVR
LP2985-29DBVR	TLV2460IDBVR	TPS3825-33DBVR	TPS76925DBVT
LP2985-29DBVT	TLV2460IDBVT	TPS3825-33DBVT	TPS76927DBVR
LP2985-30DBVR	TLV2461CDBVR	TPS3825-50DBVR	TPS76927DBVT

LP2985-30DBVT	TLV2461CDBVT	TPS3825-50DBVT	TPS76928DBVR
LP2985-33DBVR	TLV2461IDBVR	TPS3828-33DBVR	TPS76928DBVT
LP2985-33DBVT	TLV2461IDBVT	TPS3828-33DBVT	TPS76930DBVR
LP2985-50DBVR	TLV2470CDBVR	TPS3828-50DBVR	TPS76930DBVT
LP2985-50DBVT	TLV2470CDBVT	TPS3828-50DBVT	TPS76933DBVR
LP2985A-10DBVR	TLV2470IDBVR	TPS3836E18DBVR	TPS76933DBVT
LP2985A-10DBVT	TLV2470IDBVT	TPS3836E18DBVT	TPS76950DBVR
LP2985A-18DBVR	TLV271CDBVR	TPS3836H30DBVR	TPS76950DBVT
LP2985A-18DBVT	TLV271CDBVT	TPS3836H30DBVT	TPS77001DBVR
LP2985A-25DBVR	TLV271IDBVR	TPS3836J25DBVR	TPS77001DBVT
LP2985A-25DBVT	TLV271IDBVT	TPS3836J25DBVT	TPS77015DBVR
LP2985A-28DBVR	TLV431AIDBVR	TPS3836K33DBVR	TPS77015DBVT
LP2985A-28DBVT	TLV431AIDBVT	TPS3836K33DBVT	TPS77018DBVR
LP2985A-29DBVR	TLV431BCDBVR	TPS3836L30DBVR	TPS77018DBVT
LP2985A-29DBVT	TLV431BCDBVT	TPS3836L30DBVT	TPS77025DBVR
LP2985A-30DBVR	TLV431CDBVR	TPS3837E18DBVT	TPS77025DBVT
LP2985A-30DBVT	TLV431CDBVT	TPS3837J25DBVR	TPS77027DBVR
LP2985A-33DBVR	TLV431IDBVR	TPS3837J25DBVT	TPS77027DBVT
LP2985A-33DBVT	TLV431IDBVT	TPS3837K33DBVR	TPS77028DBVR
LP2985A-50DBVR	TLV7211AIDBVR	TPS3837K33DBVT	TPS77028DBVT
LP2985A-50DBVT	TLV809K33DBVR	TPS3837L30DBVR	TPS77030DBVR
OPA835IDBVR	TLV809K33DBVT	TPS3837L30DBVT	TPS77030DBVT
OPA835IDBVT	TLVH431ACDBVR	TPS3838E18DBVR	TPS77033DBVR
OPA836IDBVR	TLVH431ACDBVT	TPS3838E18DBVT	TPS77033DBVT
OPA836IDBVT	TPD4E1U06DBVR	TPS3838J25DBVR	TPS77050DBVR
SN0609056DBVR	TPS2828DBVR	TPS3838J25DBVT	TPS77050DBVT
SN1003028DBVR	TPS2828DBVT	TPS3838K33DBVR	TS12A4516DBVR
SN1009052DBVR	TPS2829DBVR	TPS3838K33DBVT	TS12A4517DBVR
SN1009052DBVT	TPS2829DBVT	TPS3838L30DBVR	TS321IDBVT
TL331IDBVR	TPS3809I50DBVR	TPS3838L30DBVT	TS321IDBVR
TL331IDBVT	TPS3809I50DBVT	TPS76033DBVR	
TL331KDBVR	TPS3809J25DBVR	TPS76033DBVT	

### Group 1 : Qualification Data

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.

#### Qual Vehicle 1 : TPS4009DGQ (MSL 1-260C)

##### Package Construction Details

<b>Assembly Site:</b>	AESH	<b>Mold Compound:</b>	EN2000515
<b># Pins-Designator, Family:</b>	10-DGQ, VSSOP	<b>Mount Compound:</b>	EY1000063
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu

**Qualification:**  Plan  Test Results

Reliability Test	Conditions	Sample Size/Fail
Electrical Characterization	-	Pass
** Steady-state Life Test	125C (1000 Hrs)	76/0
Manufacturability (Assembly)	(per mfg. Site specification)	Pass

Notes \*\*- Preconditioning sequence: Level 1-260C.

<b>Qual Vehicle 2 : TPS62040DGQ (MSL 1-260C)</b>				
<b>Package Construction Details</b>				
<b>Assembly Site:</b>	ASESH	<b>Mold Compound:</b>	EN2000515	
<b># Pins-Designator, Family:</b>	10-DGQ, VSSOP	<b>Mount Compound:</b>	EY1000063	
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu	
<b>Qualification:</b> <input type="checkbox"/> Plan <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 (1000 Hrs)	76/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	78/0	78/0	78/0
**T/C -65C/150C	-65C/+150C (1000 Cyc)	77/0	77/0	77/0
Manufacturability (Assembly)	(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 3 : INA170EA/A (MSL 2-260C)</b>				
<b>Package Construction Details</b>				
<b>Assembly Site:</b>	ASESH	<b>Mold Compound:</b>	EN2000515	
<b># Pins-Designator, Family:</b>	8-DGK, VSSOP	<b>Mount Compound:</b>	EY1000063	
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu	
<b>Qualification:</b> <input type="checkbox"/> Plan <input checked="" type="checkbox"/> <b>Test Results</b>				
Reliability Test	Conditions	Sample Size/Fail		
		Lot 1	Lot 2	Lot 3
Electrical Characterization	-	Pass		
** Steady-state Life Test	125C (1000 Hrs)	77/0		
**High Temp. Storage Bake	170C (420 Hrs)	77/0		
**Biased HAST	130C/85%RH (96 Hrs)	77/0		
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0		
Manufacturability (Assembly)	(per mfg. Site specification)	Pass		
Moisture Sensitivity	(level 2 @ 260C peak +5/-0C)	12/0		
Notes ** Preconditioning sequence: Level 2-260C.				
<b>Qual Vehicle 4 : INA203AIDGSR (MSL 2-260C)</b>				
<b>Package Construction Details</b>				
<b>Assembly Site:</b>	ASESH	<b>Mold Compound:</b>	EN2000515	
<b># Pins-Designator, Family:</b>	10-DGS, VSSOP	<b>Mount Compound:</b>	EY1000063	
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu	
<b>Qualification:</b> <input type="checkbox"/> Plan <input checked="" type="checkbox"/> <b>Test Results</b>				
Reliability Test	Conditions	Sample Size/Fail		
		Lot 1	Lot 2	Lot 3
Electrical Characterization	-	Pass		
** Steady-state Life Test	125C (1000 Hrs)	77/0		
**High Temp. Storage Bake	170C (420 Hrs)	77/0		
**Unbiased HAST	130C/85%RH (96 Hrs)	77/0		
**Biased HAST	130C/85%RH (96 Hrs)	77/0		
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0		
Manufacturability (Assembly)	(per mfg. Site specification)	Pass		
Moisture Sensitivity	(level 2 @ 260C peak +5/-0C)	12/0		
Notes ** Preconditioning sequence: Level 2-260C.				

<b>Qual Vehicle 5 : TMP431ADGKR (MSL 2-260C)</b>			
<b>Package Construction Details</b>			
<b>Assembly Site:</b>	ASESH	<b>Mold Compound:</b>	EN2000515
<b># Pins-Designator, Family:</b>	8-DGK, VSSOP	<b>Mount Compound:</b>	EY1000063
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu
<b>Qualification:</b> <input type="checkbox"/> Plan <input checked="" type="checkbox"/> <b>Test Results</b>			
<b>Reliability Test</b>	<b>Conditions</b>	<b>Sample Size/Fail</b>	
Electrical Characterization	-	Pass	
** Steady-state Life Test	150C (168 Hrs)	77/0	
**High Temp. Storage Bake	170C (420 Hrs)	77/0	
**Unbiased HAST	130C/85%RH (96 Hrs)	77/0	
**Biased HAST	130C/85%RH (96 Hrs)	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	
Moisture Sensitivity	(level 2 @ 260C peak +5/-0C)	12/0	
Notes ** Preconditioning sequence: Level 2-260C.			
<b>Qual Vehicle 6 : TMP75AIDGKR (MSL 2-260C)</b>			
<b>Package Construction Details</b>			
<b>Assembly Site:</b>	ASESH	<b>Mold Compound:</b>	EN2000515
<b># Pins-Designator, Family:</b>	8-DGK, VSSOP	<b>Mount Compound:</b>	EY1000063
<b>Lead frame (Finish, Base):</b>	NiPdAu	<b>Bond Wire:</b>	1.0 Mil Dia., Cu
<b>Qualification:</b> <input type="checkbox"/> Plan <input checked="" type="checkbox"/> <b>Test Results</b>			
<b>Reliability Test</b>	<b>Conditions</b>	<b>Sample Size/Fail</b>	
Electrical Characterization	-	Pass	
** Steady-state Life Test	150C (168 Hrs)	77/0	
**High Temp. Storage Bake	170C (600 Hrs)	77/0	
**Unbiased HAST	130C/85%RH (96 Hrs)	77/0	
**Biased HAST	130C/85%RH (96 Hrs)	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	
Moisture Sensitivity	(level 2 @ 260C peak +5/-0C)	12/0	
Notes ** Preconditioning sequence: Level 2-260C.			
<b>Group 2 : Qualification Data</b>			
<b>Qual Vehicle 1 : TL432ACDBVR (MSL 1-260C)</b>			
<b>Package Construction Details</b>			
<b>Assembly Site:</b>	NFME	<b>Mold Compound:</b>	R-17
<b># Pins-Designator, Family:</b>	5-DBV, SOT-23	<b>Mount Compound:</b>	A-03
<b>Lead frame (Finish, Base):</b>	Matte Sn, Cu	<b>Bond Wire:</b>	1.0Mil 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	Pass	Pass
**High Temp. Storage Bake	170C (600 Hrs)	77/0	77/0	77/0
**Unbiased HAST	130C/85%RH/33.3 psia (96 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH/33.3 psia (192 Hrs)	77/0	77/0	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Autoclave	121C (192 Hrs)	77/0	77/0	77/0
Flammability (UL 94V-0)	(UL 94V-0)	5/0	5/0	-
Flammability (UL 94V-0)	(UL 94V-0)	5/0	5/0	-
Flammability (IEC 695-2-2)	(IEC 695-2-2)	5/0	5/0	-
Salt Atmosphere	-	22/0	22/0	-
Solderability	Steam age, 8 hours; PB-Free solder	22/0	22/0	-
Manufacturability (Assembly)	(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 : TS321DBVR (MSL 1-260C)</b>				
<b>Package Construction Details</b>				
<b>Assembly Site:</b>	NFME	<b>Mold Compound:</b>	R-17	
<b># Pins-Designator, Family:</b>	5-DBV, SOT-23	<b>Mount Compound:</b>	A-03	
<b>Lead frame (Finish, Base):</b>	Matte Sn, Cu	<b>Bond Wire:</b>	1.0Mil 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 (600 Hrs)	77/0	77/0	77/0
**Unbiased HAST	130C/85%RH/33.3 psia (192 Hrs)	77/0	77/0	77/0
**Biased HAST	130C/85%RH/33.3 psia (192 Hrs)	79/0	-	-
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0
**Autoclave	121C (192 Hrs)	77/0	77/0	77/0
Flammability (UL 94V-0)	(UL 94V-0)	5/0	-	-
Flammability (UL 94V-0)	(UL 94V-0)	5/0	-	-
Flammability (IEC 695-2-2)	(IEC 695-2-2)	5/0	-	-
Salt Atmosphere	-	22/0	-	-
Solderability	Steam age, 8 hours; PB-Free solder	22/0	-	-
Manufacturability (Assembly)	(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.				

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>