

PCN Number:	20240724001.1			PCN Date:	July 25, 2024								
Title:	Qualification of an alternate Lead Finish material for select devices												
Customer Contact:	Change Management team		Dept:	Quality Services									
Proposed 1st Ship Date:	October 23, 2024		Sample Requests accepted until:	August 24, 2024*									
*Sample requests received after August 24, 2024 will not be supported.													
Change Type:													
☐	Assembly Site	☐	Design	☐	Wafer Bump Material								
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process								
☒	Assembly Materials	☐	Part number change	☐	Wafer Fab Site								
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Material								
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process								
PCN Details													
Description of Change:													
This PCN is to inform of the qualification of an alternate lead finish for the list of devices in the product affected sections below. <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #d9e1f2;">What</th> <th style="background-color: #d9e1f2;">Current</th> <th style="background-color: #d9e1f2;">Additional</th> </tr> </thead> <tbody> <tr> <td>Lead Finish</td> <td>NiPdAu</td> <td>Matte Sn</td> </tr> </tbody> </table> Qualification results are shown below						What	Current	Additional	Lead Finish	NiPdAu	Matte Sn		
What	Current	Additional											
Lead Finish	NiPdAu	Matte Sn											
Reason for Change:													
Standardization													
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):													
None													
Impact on Environmental Ratings													
Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings. <table style="width: 100%;"> <thead> <tr> <th style="text-align: center;">RoHS</th> <th style="text-align: center;">REACH</th> <th style="text-align: center;">Green Status</th> <th style="text-align: center;">IEC 62474</th> </tr> </thead> <tbody> <tr> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> <td>☒ No Change</td> </tr> </tbody> </table>						RoHS	REACH	Green Status	IEC 62474	☒ No Change	☒ No Change	☒ No Change	☒ No Change
RoHS	REACH	Green Status	IEC 62474										
☒ No Change	☒ No Change	☒ No Change	☒ No Change										
Changes to product identification resulting from this PCN:													
None													
Product Affected:													
74AVC8T245RH LR	MSP430F2012IRSAT	MSPM0G1106TRHBR	TCAL9539RTWR										
A2I200RHFR	MSP430F2012TRSAR	MSPM0G1107TRHBR	TDP0604IRNQT										
A2I200RHFT	MSP430F2012TRSAT	MSPM0G1505SRHBR	TDP0604RNQR										
ADC3910D125IRSMR	MSP430F2013IRSAR	MSPM0G1506SRHBR	TDP0604RNQT										
ADC3910D125IRSMT	MSP430F2013IRSAT	MSPM0G1507SRHBR	TDP1204IRNQR										
ADS1285IRHBR	MSP430F2013TRSAR	MSPM0G3105SRHBR	TDP1204IRNQT										
ADS1285IRHBT	MSP430F2013TRSAT	MSPM0G3106SRHBR	TDP1204RNQR										
ADS1288IRHBR	MSP430F2101IRGER	MSPM0G3107SRHBR	TDP1204RNQT										
ADS1288IRHBT	MSP430F2101IRGET	MSPM0G3505SRHBR	TDP142RNQR										
BQ24717RGRR	MSP430F2101TRGER	MSPM0G3506SRHBR	TDP2004IRNQR										

BQ24717RGRT	MSP430F2111IRGER	MSPM0G3507SRHBR	TDP2004IRNQT
BQ24728HRGRR	MSP430F2111IRGET	MSPM0L1105TRGER	TDP2004RNQR
BQ24728HRGRT	MSP430F2111TRGER	MSPM0L1105TRHBR	TDP2004RNQT
BQ24728RGRR	MSP430F2111TRGET	MSPM0L1106TRGER	THS6222IRHFT
BQ24728RGRT	MSP430F2112IRHBR	MSPM0L1106TRHBR	THS6301IRSAR
BQ24735FRGRR	MSP430F2112IRHBT	MSPM0L1303SRGER	THS6301IRSAT
BQ24735FRGRT	MSP430F2112TRHBR	MSPM0L1303TRGER	THVD1400VDRCR
BQ24735RGRR	MSP430F2112TRHBT	MSPM0L1304SRGER	TLC6946RGER
BQ24738HRGRR	MSP430F2121IRGER	MSPM0L1304SRHBR	TLC6948RGER
BQ24738HRGRT	MSP430F2121IRGET	MSPM0L1304TRGER	TLV1812DSGR
BQ24738RGRR	MSP430F2121TRGET	MSPM0L1304TRHBR	TLV1822DSGR
BQ24738RGRT	MSP430F2122IRHBR	MSPM0L1305SRGER	TLV320ADC3100IRGET
BQ24770RUYR	MSP430F2122TRHBR	MSPM0L1305SRHBR	TLV320ADC3101IRGER
BQ24773RUYR	MSP430F2122TRHBT	MSPM0L1305TRGER	TLV320ADC3101IRGET
BQ24777ARUYR	MSP430F2131IRGER	MSPM0L1305TRHBR	TLV320ADC5140IRTWR
BQ24777ARUYT	MSP430F2131IRGET	MSPM0L1306SRGER	TLV7034RTER
BQ24777RUYR	MSP430F2131TRGER	MSPM0L1306SRHBR	TLV75519PDRVR
BQ24777RUYT	MSP430F2131TRGET	MSPM0L1306TRGER	TLV75529PDRVR
BQ24781RUYR	MSP430F2132IRHBR	MSPM0L1306TRHBR	TLV76708DRVT
BQ24781RUYT	MSP430F2132IRHBT	MUX36D04IRRJR	TLV76728DRVT
BQ24786RUYR	MSP430F2132TRHBR	OPA2375IDSGR	TMDS1204IRNQT
BQ24786RUYT	MSP430F2132TRHBT	OPA4310SIRTER	TMDS1204RNQT
BQ24800RUYR	MSP430F5131IRSB	RF430TAL152HSRGER	TMUX6113RTER
BQ24800RUYT	MSP430F5131IRSBT	RF430TAL160HDSRGER	TMUXHS4212IRKSR
BQ25713BRSNR	MSP430F5132IRSB	SN0803054DRCR	TMUXHS4212IRKST
BQ25728RSNR	MSP430F5132IRSBT	SN1304056RSBR	TPS3850G12DRCR
BQ27411DRZR-G1D	MSP430F5151IRSB	SN1304056RSBT	TPS3850G18DRCR
BQ294502DRVT	MSP430F5151IRSBT	SN1304057RSBR	TPS3850G30DRCT
BQ294504DRVR	MSP430F5152IRSB	SN1304057RSBT	TPS3850G50DRCR
BQ294504DRVT	MSP430F5152IRSBT	SN1307054RGRR	TPS3850H12DRCR
BQ294506DRVR	MSP430F5171IRSB	SN1307054RGRT	TPS3850H12DRCT
BQ294506DRVT	MSP430F5171IRSBT	SN1409030RUKR	TPS3850H18DRCR
BQ294524DRVR	MSP430F5172IRSB	SN1607002RUKR	TPS3850H30DRCR
BQ294524DRVT	MSP430F5172IRSBT	SN1701008DRSR	TPS3850H30DRCT
BQ294533DRVR	MSP430FR2310IRGYR	SN1708031RHFR	TPS3850H50DRCR
BQ294533DRVT	MSP430FR2310IRGYT	SN1907026RTWR	TPS3851G18EDRBR
BQ294582DRVR	MSP430FR2311IRGYR	SN27411DRZR-B1	TPS3851G18EDRBT
BQ294582DRVT	MSP430FR2311IRGYT	SN27411DRZT-B1	TPS3851G18SDRBR
BQ294602DRVR	MSP430FR2433IRGER	SN2830RUYR	TPS3851G18SDRBT
BQ294602DRVT	MSP430FR2433IRGET	SN2830RUYT	TPS3851G25EDRBR
BQ294604DRVT	MSP430FR2532IRGER	SN2833RGRR	TPS3851G25EDRBT
BQ294682DRVR	MSP430FR2532IRGET	SN2833RGRT	TPS3851G30EDRBR
BQ296221DSGR	MSP430FR2533IRHBR	SN51285ARUKR	TPS3851G30EDRBT
BQ40320RSMR	MSP430FR2533IRHBT	SN65LBC180RSAR	TPS3851G33EDRBR
BQ40320RSMR-R1	MSP430FR2632IRGER	SN65MLVD203BRUMR	TPS3851G33EDRBT

BQ40320RSMT	MSP430FR2632IRGET	SN65MLVD203BRUMT	TPS3851G33SDRBR
BQ40320RSMT-R1	MSP430FR2633IRHBR	SN65MLVD204BRUMR	TPS3851G33SDRBT
BQ40696ARSMR	MSP430FR2633IRHBT	SN65MLVD204BRUMT	TPS3851G50EDRBR
BQ40Z453RSMR	MSP430G2001IRSA16R	SN700013RSMR	TPS3851G50EDRBT
BQ40Z453RSMT	MSP430G2001IRSA16T	SN74AC244RKSR	TPS3851G50SDRBR
BQ40Z50RSMR	MSP430G2101IRSA16R	SN74AC541RKSR	TPS3851G50SDRBT
BQ40Z50RSMT	MSP430G2101IRSA16T	SN74AC573RKSR	TPS3851H18EDRBR
BQ40Z551RSMR	MSP430G2102IRSA16T	SN74AC7541RKSR	TPS3851H18EDRBT
BQ40Z551RSMT	MSP430G2111IRSA16R	SN74AC8541RKSR	TPS3851H25EDRBR
BQ40Z552RSMR	MSP430G2111IRSA16T	SN74ACT240RKSR	TPS3851H25EDRBT
BQ40Z552RSMT	MSP430G2112IRSA16T	SN74ACT244RKSR	TPS3851H30EDRBR
BQ40Z555RSMR	MSP430G2121IRSA16R	SN74ACT573RKSR	TPS3851H30EDRBT
BQ40Z557RSMR	MSP430G2121IRSA16T	SN74AHC00BQAR	TPS3851H33EDRBR
BQ40Z557RSMT	MSP430G2131IRSA16R	SN74AHC02BQAR	TPS3851H33EDRBT
BQ40Z651RSMT	MSP430G2131IRSA16T	SN74AHC04BQAR	TPS3851H50EDRBR
BQ40Z695ARSMR	MSP430G2132IRSA16R	SN74AHC08BQAR	TPS3851H50EDRBT
BQ40Z695ARSMT	MSP430G2132IRSA16T	SN74AHC125BQAR	TPS51220RHBT
BQ40Z696ARSMR	MSP430G2152IRSA16R	SN74AHC126BQAR	TPS51225BRUKR
BQ40Z795ARSMR	MSP430G2152IRSA16T	SN74AHC132BQAR	TPS51225BRUKT
BQ41390RSNR	MSP430G2153IRHB32R	SN74AHC14BQAR	TPS51225CRUKR
BQ7004RSNR	MSP430G2153IRHB32T	SN74AHC165BQBR	TPS51225CRUKT
BQ76905RGRR	MSP430G2201IRSA16R	SN74AHC238BQBR	TPS51275B-1RUKR
BQ76907RGRR	MSP430G2201IRSA16T	SN74AHC245RKSR	TPS51275B-1RUKT
BQ771601DPJR	MSP430G2202IRSA16R	SN74AHC257BQBR	TPS51275BRUKR
BQ771601DPJT	MSP430G2202IRSA16T	SN74AHC32BQAR	TPS51275BRUKT
BQ771800DPJT	MSP430G2203IRHB32R	SN74AHC74BQAR	TPS51275CRUKR
BQ771802DPJT	MSP430G2203IRHB32T	SN74AHC86BQAR	TPS51275CRUKT
BQ771803DPJR	MSP430G2211IRSA16R	SN74AHCT00BQAR	TPS51275RUKR
BQ771803DPJT	MSP430G2211IRSA16T	SN74AHCT02BQAR	TPS51275RUKT
BQ771806DPJT	MSP430G2212IRSA16R	SN74AHCT04BQAR	TPS51285ARUKR
BQ771808DPJR	MSP430G2212IRSA16T	SN74AHCT08BQAR	TPS51285B-1RUKR
BQ771808DPJT	MSP430G2213IRHB32R	SN74AHCT125BQAR	TPS51285B-1RUKT
BQ771809DPJR	MSP430G2213IRHB32T	SN74AHCT126BQAR	TPS51622ARSMR
BQ771811DPJR	MSP430G2221IRSA16R	SN74AHCT132BQAR	TPS51622ARSMT
BQ771811DPJT	MSP430G2221IRSA16T	SN74AHCT14BQAR	TPS51622RSMR
BQ771815DPJR	MSP430G2231IRSA16R	SN74AHCT165BQBR	TPS51624RSMR
BQ771817DPJR	MSP430G2231IRSA16T	SN74AHCT245RKSR	TPS51624RSMT
BQ771818DPJR	MSP430G2232IRSA16R	SN74AHCT32BQAR	TPS51980BRTVR-S
BQ771818DPJT	MSP430G2232IRSA16T	SN74AHCT74BQAR	TPS53605DSQR
BQ771823DPJR	MSP430G2233IRHB32R	SN74AHCT86BQAR	TPS53605DSQT
BQ7720702DSSR	MSP430G2233IRHB32T	SN74AXC4T245BQBR	TPS53626RSMR
BQ77307RGRR	MSP430G2252IRSA16R	SN74AXC4T774BQBR	TPS53626RSMT
BQ9000RSMR	MSP430G2252IRSA16T	SN74AXC8T245RHLLR	TPS53627RSMR
BQ9000RSMR-D1	MSP430G2253IRHB32R	SN74AXCH8T245RHLLR	TPS53627RSMT
BQ9000RSMR-D2	MSP430G2253IRHB32T	SN74GTL2003RKSR	TPS53640ARSBR

BQ9000RSMR-L1	MSP430G2302IRSA16R	SN74HCS14BQAR	TPS53640ARSBT
BQ9000RSMT	MSP430G2302IRSA16T	SN74HCS164BQAR	TPS53640RSBR
BQ9000RSMT-D1	MSP430G2303IRHB32R	SN74HCS245RKSR	TPS53640RSBT
BQ9000RSMT-D2	MSP430G2303IRHB32T	SN74HCS273RKSR	TPS53661RSBR
BQ9000RSMT-L1	MSP430G2312IRSA16R	SN74HCS373RKSR	TPS61096DSSR
BQ9003RSMR	MSP430G2312IRSA16T	SN74HCS574RKSR	TPS61096DSST
BQ9003RSMR-L1	MSP430G2313IRHB32R	SN74LV125ATRGYR	TPS65633AKRTER
BQ9003RSMT	MSP430G2313IRHB32T	SN74LV138ABQBR	TPS65633BKRTER
CC1310F32RHBR	MSP430G2332IRSA16R	SN74LV164ABQAR	TPS65651RTET
CC1310F64RHBR	MSP430G2332IRSA16T	SN74LV165ABQBR	TPS92201ADRVR
CC2340R52E0RGER	MSP430G2333IRHB32R	SN74LV245ARKSR	TPS92201AMDRVR
CC2340R52E0RKPR	MSP430G2333IRHB32T	SN74LV273ARKSR	TPS92201DRVR
CC2630F128RHBR	MSP430G2352IRSA16R	SN74LV2T74BQAR	TPS92201MDRVR
CC2630F128RHBT	MSP430G2352IRSA16T	SN74LV4040ARGYR	TRS3243ECRHBR
CC3300ENJARSBR	MSP430G2353IRHB32R	SN74LV4T00BQAR	TSER9615RHBR
CC3301ENJARSBR	MSP430G2353IRHB32T	SN74LV4T08BQAR	TSER9615RHBT
DAC43401DSGT	MSP430G2402IRSA16R	SN74LV4T125RGYR	TUSB1004IRNQT
DAC53701DSGT	MSP430G2402IRSA16T	SN74LV4T32BQAR	TUSB1004RNQR
DS160PR410RNQR	MSP430G2403IRHB32R	SN74LV541ARKSR	TUSB1004RNQT
DS320PR410RNQR	MSP430G2403IRHB32T	SN74LV594ABQBR	TUSB1046-DCIRNQR
DS320PR410RNQT	MSP430G2412IRSA16T	SN74LV595ABQBR	TUSB1046-DCIRNQT
FRE012RHBR	MSP430G2413IRHB32R	SN74LV6T06BQAR	TUSB1046A-DCIRNQR
FRE014RHBR	MSP430G2413IRHB32T	SN74LV6T07BQAR	TUSB1046A-DCIRNQT
HD3SS3212RKST	MSP430G2432IRSA16R	SN74LV6T14BQAR	TUSB1046AI-DCIRNQR
INA350ABSIDSGR	MSP430G2432IRSA16T	SN74LV6T17BQAR	TUSB1046AI-DCIRNQT
INA350CDSIDSGR	MSP430G2433IRHB32R	SN74LV8T165BQBR	TUSB1064RNQR
INA351AIDSGR	MSP430G2433IRHB32T	SN74LV8T245RKSR	TUSB1064RNQT
INA351CDSIDSGR	MSP430G2452IRSA16R	SN74LV8T594BQBR	TUSB1104IRNQR
INA4290A5IRGVT	MSP430G2452IRSA16T	SN74LVC00ABQAR	TUSB1104IRNQT
LM2005DSGR	MSP430G2453IRHB32R	SN74LVC02ABQAR	TUSB1104RNQR
LM2101DSGR	MSP430G2453IRHB32T	SN74LVC08ABQAR	TUSB1104RNQT
LM2105DSGR	MSP430G2513IRHB32R	SN74LVC11ABQAR	TUSB1142IRNQT
LM25141RGER	MSP430G2513IRHB32T	SN74LVC125ABQAR	TUSB1142RNQR
LM2901BIRTER	MSP430G2533IRHB32R	SN74LVC32ABQAR	TUSB1142RNQT
LM339BIRTER	MSP430G2533IRHB32T	SN74LVC3G97BQAR	TUSB1146RNQR
LM5148RGYR	MSP430G2553IRHB32R	SN74LVC3G98BQAR	TUSB1146RNQT
LM5149RGYR	MSP430G2553IRHB32T	SN74LVC7001ABQAR	TUSB546-DCIRNQR
LV5144RGYR	MSP430I2020TRHBR	SN74LVC7002ABQAR	TUSB546-DCIRNQT
MCF8329A1IREER	MSP430I2020TRHBT	SN74LVC7032ABQAR	TUSB546A-DCIRNQR
MCT8329A1IREER	MSP430I2021TRHBR	SN74LVC7266ABQAR	TUSB546A-DCIRNQT
MSP430F2001IRSAR	MSP430I2021TRHBT	SN74LXC8T245RHLLR	TUSB546AI-DCIRNQR
MSP430F2001IRSAT	MSP430I2030TRHBR	SN74LXCH8T245RHLLR	TUSB546AI-DCIRNQT
MSP430F2001TRSAR	MSP430I2030TRHBT	SN75LVCP601RTJR	TUSB564IRNQR
MSP430F2001TRSAT	MSP430I2031TRHBR	SN75LVCP601RTJT	TUSB564RNQR
MSP430F2002IRSAR	MSP430I2031TRHBT	SN75LVPE3410RNQR	TXS0104EBQAR

MSP430F2002IRSAT	MSP430I2040TRHBR	SN75LVPE3410RNQT	TXV0106BQBR
MSP430F2002TRSAR	MSP430I2040TRHBT	SN75LVPE4410RNQR	TXV0108RGYR
MSP430F2002TRSAT	MSP430I2041TRHBR	SN75LVPE4410RNQT	UCC27284DRMR
MSP430F2003IRSAR	MSP430I2041TRHBT	SN771806DPJR	UCC27289DRMR
MSP430F2003IRSAT	MSP430V203IRGER	SN771817DPJR	UCC28781ARTWR
MSP430F2003TRSAR	MSP430V229IRSAR	SN9000RSMR	UCC28782ADRTWR
MSP430F2003TRSAT	MSP430V277IRSAR	SN9000RSMT	UCC28782ARTWR
MSP430F2011IRSAR	MSP430V388IRSA16R	SN9003RSMR	UCC28782ARTWT
MSP430F2011IRSAT	MSP430V402IRHB32R	SN9003RSMT	UCC28782BDLRTWR
MSP430F2011TRSAR	MSP430V591IRSBR	TCA1116RTWR	UCC28782CDRTWR
MSP430F2011TRSAT	MSP430V592IRHB32R	TCA4307DRGR	UCC28782DDLRTWR
MSP430F2012IRSAR			

TI Information
Selective Disclosure

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	#	Test Name	Condition	Duration	Qual Device: TUSB546A- DCIRNQR	Qual Device: ADS8168IRHBR	Qual Device: DRV8353HRTAR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	3/231/0
UHAST	A3	Autoclave	121C/15psig	96 Hours	3/231/0	3/231/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	3/231/0	3/231/0	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0	1/22/0	-

- QBS: Qual By Similarity
- Qual Device TUSB546A-DCIRNQR is qualified at MSL1 260C
- Qual Device ADS8168IRHBR is qualified at MSL2 260C
- Qual Device DRV8353HRTAR is qualified at MSL1 260C
- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

TI Qualification ID: R-CHG-2309-021

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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