



本社：〒160-8366  
東京都新宿区西新宿 6 丁目 24 番 1 号  
西新宿三井ビルディング

報告書番号：PCN#20091109000  
2010 年 12 月 13 日

## お客様各位

日本テキサス・インスツルメンツ株式会社  
営業・技術本部 カスタマドキュメント  
マネージャ 牧 達郎 

### MSP430 一部製品 Cu(銅)線ボンディングワイア変更のご案内

(初版 PCN20091109000 2009 年 12 月 21 日発行)

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今回のお知らせは、変更実施についての最終版の連絡になります。変更の詳細は、次頁以降をご参照下さい。

本通知は、いかなる製品の製造終了に関する状況を変更するものではございません。既に製造終了の連絡をさせていただいている場合には、本通知によって、既通知の最終受注日及び最終出荷日が延長されることはございません。

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本通知は、通知日前 24 ヶ月以内に本変更対象製品をご購入いただいたお客様に連絡させていただいております。

尚、変更時期につきましては、在庫状況により異なりますので、担当営業にお問い合わせ下さい。また、ご不明な点、ご質問等がございましたら、担当営業或いは [pcn\\_tij@list.ti.com](mailto:pcn_tij@list.ti.com) にお問い合わせ下さい。

以上

変更概要

通知タイプ	<input type="checkbox"/> Initial notice (Plan)	<input checked="" type="checkbox"/> Final notice		
変更概要	Design/Specification	<input type="checkbox"/> Design	<input type="checkbox"/> Electrical	<input type="checkbox"/> Mechanical
	Wafer Fab	<input type="checkbox"/> Site	<input type="checkbox"/> Process	<input type="checkbox"/> Material
	Wafer Bump	<input type="checkbox"/> Site	<input type="checkbox"/> Process	<input type="checkbox"/> Material
	<input checked="" type="checkbox"/> Assembly	<input type="checkbox"/> Site	<input type="checkbox"/> Process	<input checked="" type="checkbox"/> Material
	Test	<input type="checkbox"/> Site	<input type="checkbox"/> Process	
	Others	<input type="checkbox"/> Packing/Shipping/Labeling		<input type="checkbox"/> -
変更内容	MSP430 一部製品 Cu(銅)線ボンディングワイア変更 現行 : Au(金)線 ボンディングワイア 変更後 : Cu(銅)線 ボンディングワイア			
対象製品	対象製品リスト参照			
変更時期	2011年2月中旬の出荷より予定しています。 (サンプルは12月下旬の出荷より予定しています。)			
品質認定試験	<input type="checkbox"/> 計画	<input checked="" type="checkbox"/> 終了		
製品表示	<input checked="" type="checkbox"/> 変更無し	<input type="checkbox"/> 変更あり		
備考	—			

変更内容

内容：弊社 ASP-MCU(マイクロコントローラ) MSP430 一部製品について、現行 Au(金)線 ボンディングワイアを使用して製造していますが、ボンディングワイアの機械/電気的特性の向上及び同種製品の組立技術推移に対応する為に、これに替わり、Cu(銅)線 ボンディングワイアへ移行し認定しました。対象製品について、組立サイトの変更はありません。尚、今回の変更で、製品についての互換性(寸法/公差), 外観, 動作特性, 品質, 信頼性への影響はありません。

変更内容	現行	変更後
ボンディングワイア	Au(金)線	Cu(銅)線

理由：機械/電気的特性の向上及び同種製品の組立技術推移に対応する為

対象製品リスト

対象製品名				
□: 認定終了品 薄字: 右詰: 未認定品				
MSP430A001IPM	MSP430F1121A1DWR	MSP430F21111DWR	MSP430F4121RTDT	MSP430FG4781PN
MSP430A001IPMR	MSP430F1121A1PW	MSP430F21111PW	MSP430F41321PM	MSP430FG4781PNR
MSP430A0021PM	MSP430F1121A1PWR	MSP430F21111PWR	MSP430F41321PMR	MSP430FG4791PN
MSP430A0021PMR	MSP430F1121A1RGE	MSP430F21111RGER	MSP430F41321RGZ	MSP430FG4791PNR
MSP430A0031PW	MSP430F1121A1RGER	MSP430F21111RGET	MSP430F41321RGZR	MSP430FW4231PM
MSP430A0031PWR	MSP430F1121A1RGET	MSP430F21111TDGV	MSP430F41321RGZT	MSP430FW4231PMR
MSP430A0041PW	MSP430F11221DW	MSP430F21111TDGVR	MSP430F4131PM	MSP430FW4251PM
MSP430A0041PWR	MSP430F11221DWR	MSP430F21111TDW	MSP430F4131PMR	MSP430FW4251PMR
MSP430A0051PW	MSP430F11221PW	MSP430F21111TDWR	MSP430F4131RTD	MSP430FW4271PM
MSP430A0051PWR	MSP430F11221PWR	MSP430F21111TPW	MSP430F4131RTDR	MSP430FW4271PMR
MSP430A0061PW	MSP430F11221RHBR	MSP430F21111TPWR	MSP430F4131RTDT	MSP430T1001PM
MSP430A0061PWR	MSP430F11221RHBT	MSP430F21111TRGER	MSP430F41521PM	MSP430T1011PM
MSP430A0061RTDR	MSP430F11321DW	MSP430F21111TRGET	MSP430F41521PMR	MSP430T1011PMR
MSP430A0061RTDT	MSP430F11321DWR	MSP430F21121PW	MSP430F41521RGZ	MSP430T1031PM
MSP430A0071PW	MSP430F11321PW	MSP430F21121PWR	MSP430F41521RGZR	MSP430T1031PMR
MSP430A0071PWR	MSP430F11321PWR	MSP430F21121RHBR	MSP430F41521RGZT	MSP430TC0701PZ
MSP430A0071RTDR	MSP430F11321RHBR	MSP430F21121RHBT	MSP430F4151PM	MSP430TEXAS21PEG
MSP430A0071RTDT	MSP430F11321RHBT	MSP430F21121TPW	MSP430F4151PMR	MSP430TEXAS21PEGR
MSP430A0081PN	MSP430F12221DW	MSP430F21121TPWR	MSP430F4151RTDR	MSP430TEXAS21PM
MSP430A0091PM	MSP430F12221DWR	MSP430F21121TRHBR	MSP430F4151RTDT	MSP430TEXAS21PMR
MSP430A0091PMR	MSP430F12221PW	MSP430F21121TRHBT	MSP430F4171PM	MSP430U2271PMR
MSP430A0101PM	MSP430F12221PWR	MSP430F21211DGV	MSP430F4171PMR	MSP430U2591DWR
MSP430A0101PMR	MSP430F12221RHBR	MSP430F21211DGV	MSP430F4171RTDR	MSP430U2661PMR

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MSP430A011 PMR	MSP430F1222 RHBT	MSP430F2121 DW	MSP430F4171 RTDT	MSP430U273 PWR
MSP430A012 DW	MSP430F122 DW	MSP430F2121 DWR	MSP430F4230 IDL	MSP430U276 PWR
MSP430A012 DWR	MSP430F122 DWR	MSP430F2121 PW	MSP430F4230 DLR	MSP430U286 PWR
MSP430A013 PM	MSP430F1221 PW	MSP430F2121 PWR	MSP430F423A IPM	MSP430U287 PMR
MSP430A013 PMR	MSP430F1221 PWR	MSP430F2121 RGER	MSP430F423A IPMR	MSP430U288 PMR
MSP430A014 PMR	MSP430F1221 RHBR	MSP430F2121 RGET	MSP430F4231 PM	MSP430U293 PWR
MSP430A015 PM	MSP430F1221 RHBT	MSP430F2121 TDGV	MSP430F4231 PMR	MSP430U295 PMR
MSP430A015 PMR	MSP430F1232 DW	MSP430F2121 TDGVR	MSP430F4231 RTDR	MSP430U299 PWR
MSP430A017 IPN	MSP430F1232 DWR	MSP430F2121 TDW	MSP430F4231 RTDT	MSP430U300 PMR
MSP430A018 IPN	MSP430F1232 IPW	MSP430F2121 TDWR	MSP430F4250 IDL	MSP430U307 IPM
MSP430A021 IPW	MSP430F1232 IPWR	MSP430F2121 TPW	MSP430F4250 DLR	MSP430U309 PMR
MSP430A021 RSAR	MSP430F1232 RHBR	MSP430F2121 TPWR	MSP430F4250 RGZR	MSP430U310 PMR
MSP430A023 IPM	MSP430F1232 RHBT	MSP430F2121 TRGER	MSP430F4250 RGZT	MSP430U311 PMR
MSP430A023 IPMR	MSP430F123 DW	MSP430F2121 TRGET	MSP430F425A IPM	MSP430U315 PMR
MSP430A024 IPM	MSP430F123 DWR	MSP430F2122 IPW	MSP430F425A IPMR	MSP430U320 DWR
MSP430A024 IPMR	MSP430F123 IPW	MSP430F2122 IPWR	MSP430F4251 PM	MSP430U321 PMR
MSP430A025 IPM	MSP430F123 IPWR	MSP430F2122 RHBR	MSP430F4251 PMR	MSP430U323 PZ
MSP430A025 IPMR	MSP430F123 IPWR-HYD	MSP430F2122 RHBT	MSP430F4251 RTDR	MSP430U324 PZR
MSP430A026 IPM	MSP430F123 RHBR	MSP430F2122 TPW	MSP430F4251 RTDT	MSP430U329 PZ
MSP430A026 IPMR	MSP430F123 RHBT	MSP430F2122 TPWR	MSP430F4260 IDL	MSP430U329 PZR
MSP430A027 IPM	MSP430F133 PAG	MSP430F2122 TRHBR	MSP430F4260 DLR	MSP430U332 PMR
MSP430A027 IPMR	MSP430F133 PAGR	MSP430F2122 TRHBT	MSP430F4260 RGZR	MSP430U334 PZR
MSP430A028 IPM	MSP430F133 IPM	MSP430F2131 DGV	MSP430F4260 RGZT	MSP430U335 PWR
MSP430A028 IPMR	MSP430F133 IPMR	MSP430F2131 DGV	MSP430F4270 IDL	MSP430U337 PW
MSP430A029 IPM	MSP430F133 RTDR	MSP430F2131 DW	MSP430F4270 DLR	MSP430U337 PWR
MSP430A029 IPMR	MSP430F133 RTDT	MSP430F2131 DWR	MSP430F4270 RGZR	MSP430U339 PWR
MSP430A030 IPW	MSP430F135 PAG	MSP430F2131 IPW	MSP430F4270 RGZT	MSP430U340 IPM
MSP430A030 IPWR	MSP430F135 PAGR	MSP430F2131 IPWR	MSP430F427A IPM	MSP430U341 IPMR
MSP430A030 RSAR	MSP430F135 IPM	MSP430F2131 RGER	MSP430F427A IPMR	MSP430U343 PWR
MSP430A030 RSAT	MSP430F135 IPMR	MSP430F2131 RGET	MSP430F4271 PM	MSP430U344 PWR
MSP430A034 IPW	MSP430F135 RTDR	MSP430F2131 TDGV	MSP430F4271 PMR	MSP430U345 PMR
MSP430A034 IPWR	MSP430F135 RTDT	MSP430F2131 TDGVR	MSP430F4271 RTDR	MSP430V100 PWR
MSP430A034 RSAR	MSP430F1471 IPM	MSP430F2131 TDW	MSP430F4271 RTDT	MSP430V102 IPM
MSP430A034 RSAT	MSP430F1471 IPMR	MSP430F2131 TDWR	MSP430F4351 IPN	MSP430V103 IPM
MSP430A038 RSAR	MSP430F1471 IPMRG4	MSP430F2131 TPW	MSP430F4351 IPNR	MSP430V103 PMR
MSP430A038 RSAT	MSP430F1471 RTDR	MSP430F2131 TPWR	MSP430F4351 IPZ	MSP430V104 IPM
MSP430A039 RHBR	MSP430F1471 RTDT	MSP430F2131 TRGER	MSP430F4351 IPZR	MSP430V106 RTDR
MSP430A039 RHBT	MSP430F1471 PAG	MSP430F2131 TRGET	MSP430F4351 IPN	MSP430V106 RTDRG4
MSP430A040 RSAR	MSP430F1471 PAGR	MSP430F2132 IPW	MSP430F4351 IPNR	MSP430V107 IPM
MSP430A040 RSAT	MSP430F1471 IPM	MSP430F2132 IPWR	MSP430F4351 IPNR24	MSP430V108 DLR
MSP430A041 IPM	MSP430F1471 IPMR	MSP430F2132 RHBR	MSP430F4351 PZ	MSP430V109 PZ
MSP430A041 IPMR	MSP430F1471 IPMRG4	MSP430F2132 RHBT	MSP430F4351 PZR	MSP430V109 PZR
MSP430A041 RTD	MSP430F1471 IPMR-KAM	MSP430F2132 RHBT	MSP430F4361 IPN	MSP430V110 PMR
MSP430A041 RTDR	MSP430F1471 RTDR	MSP430F2132 TPW	MSP430F4361 IPNR	MSP430V111 IPM
MSP430A042 RHAR	MSP430F1471 RTDT	MSP430F2132 TPWR	MSP430F4361 IPNRKAM	MSP430V111 PMR
MSP430A042 RHAT	MSP430F1481 IPM	MSP430F2132 TRHBR	MSP430F4361 IPZ	MSP430V112 RHAR
MSP430A043 RGER	MSP430F1481 IPMR	MSP430F2132 TRHBT	MSP430F4361 IPZR	MSP430V112 RHAT
MSP430A043 RGET	MSP430F1481 RTDR	MSP430F2232 IDA	MSP430F4361 IPN	MSP430V114 IPM
MSP430A044 IPM	MSP430F1481 RTDRG4	MSP430F2232 IDAR	MSP430F4361 IPNR	MSP430V115 IPNR
MSP430A044 IPMR	MSP430F1481 RTDT	MSP430F2232 RHAR	MSP430F4361 IPNR24	MSP430V116 DGV
MSP430A045 PWR	MSP430F1481 PAG	MSP430F2232 RHAT	MSP430F4361 PZ	MSP430V118 IPM
MSP430A046 IPZ	MSP430F1481 PAGR	MSP430F2232 TDA	MSP430F4361 PZR	MSP430V118 PMR
MSP430A046 IPZR	MSP430F1481 PM	MSP430F2232 TDAR	MSP430F4371 IPN	MSP430V119 RTDR
MSP430A047 IPZ	MSP430F1481 PMG4	MSP430F2232 TRHAR	MSP430F4371 IPNR	MSP430V120 RTDR
MSP430A047 IPZR	MSP430F1481 PMR	MSP430F2232 TRHAT	MSP430F4371 IPZ	MSP430V121 RHAR
MSP430A048 IPM	MSP430F1481 RTDR	MSP430F2234 IDA	MSP430F4371 IPZR	MSP430V122 IPMR
MSP430A048 IPMR	MSP430F1481 RTDT	MSP430F2234 IDAR	MSP430F4371 IPN	MSP430V123 IPMR
MSP430A049 IPM	MSP430F1491 IPM	MSP430F2234 RHAR	MSP430F4371 IPNR	MSP430V124 IPWR
MSP430A049 IPMR	MSP430F1491 IPMRG4	MSP430F2234 RHAT	MSP430F4371 PZ	MSP430V125 DTPWR
MSP430A050 IPM	MSP430F1491 IPMR	MSP430F2234 TDA	MSP430F4371 PZR	MSP430V125 TPW
MSP430A050 IPMR	MSP430F1491 IPMRG4	MSP430F2234 TDAR	MSP430F4471 PZ	MSP430V125 TPWR
MSP430A051 IPM	MSP430F1491 RTDR	MSP430F2234 TRHAR	MSP430F4471 PZR	MSP430V126 RHAR
MSP430A051 IPMR	MSP430F1491 RTDT	MSP430F2234 TRHAT	MSP430F4481 IPZ	MSP430V126 RHARG4
MSP430A052 IPW	MSP430F1491 RTDRG4	MSP430F2252 IDA	MSP430F4481 IPZR	MSP430V126 RHAT
MSP430A052 PWR	MSP430F1491 PAG	MSP430F2252 IDAR	MSP430F4481 PZ	MSP430V127 IPMR
MSP430A053 IPW	MSP430F1491 PAGR	MSP430F2252 RHAR	MSP430F4481 PZR	MSP430V129 IPW

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MSP430A053IPWR	MSP430F149IPM	MSP430F2252IRHAT	MSP430F4491IPZ	MSP430V129IPWR
MSP430A054IPN	MSP430F149IPMG4	MSP430F2252TDA	MSP430F4491IPZR	MSP430V130IRGZR
MSP430A055IPM	MSP430F149IPMR	MSP430F2252TDAR	MSP430F4491PZ	MSP430V131IPAGR
MSP430A056IPM	MSP430F149IPMRG4	MSP430F2252TRHAR	MSP430F4491PZR	MSP430V132IRHAR
MSP430A057IPMR	MSP430F149IPMR-KAM	MSP430F2252TRHAT	MSP430F46161IPZ	MSP430V132IRHARG4
MSP430A058IRHBR	MSP430F149IRTD	MSP430F2254IDA	MSP430F46161IPZR	MSP430V133IPWR
MSP430A059IPM	MSP430F149IRTDG4	MSP430F2254IDAR	MSP430F46161PZ	MSP430V134IPWR
MSP430A059IPMR	MSP430F149IRTD	MSP430F2254IRHAR	MSP430F46161PZR	MSP430V135IPN
MSP430A059IRTD	MSP430F149IRTDG4	MSP430F2254IRHAT	MSP430F46171IPZ	MSP430V135IPNR
MSP430A059IRTD	MSP430F155IPM	MSP430F2254TDA	MSP430F46171IPZR	MSP430V136IDL
MSP430A061IDAR	MSP430F155IPMR	MSP430F2254TDAR	MSP430F46171PZ	MSP430V137IPAGR
MSP430A062IPZ	MSP430F155IRTD	MSP430F2254TRHAR	MSP430F46171PZR	MSP430V138TDA
MSP430A062IPZR	MSP430F155IRTD	MSP430F2254TRHAT	MSP430F46181IPZ	MSP430V138TRHAR
MSP430A064IPM	MSP430F156IPM	MSP430F2272IDA	MSP430F46181IPZR	MSP430V138TRHAT
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MSP430A066IPN	MSP430F156IRTD	MSP430F2272IRHAR	MSP430F46181PZR	MSP430V143IPM
MSP430A066IPNR	MSP430F156IRTD	MSP430F2272IRHAT	MSP430F46191IPZ	MSP430V144IRHBR
MSP430A066IPZ	MSP430F157IPM	MSP430F2272TDA	MSP430F46191IPZR	MSP430V145IPWR
MSP430A066IPZR	MSP430F157IPMR	MSP430F2272TDAR	MSP430F46191PZ	MSP430V146IPMR
MSP430A067IRGER	MSP430F157IRTD	MSP430F2272TRHAR	MSP430F46191PZR	MSP430V147IPWR
MSP430A068IRHAR	MSP430F157IRTD	MSP430F2272TRHAT	MSP430F47126IPZ	MSP430V148IN
MSP430A069IPZ	MSP430F1610IPM	MSP430F2274IDA	MSP430F47126IPZR	MSP430V151IPWR
MSP430A076TPMR	MSP430F1610IPMR	MSP430F2274IDAR	MSP430F47127IPZ	MSP430V152IDWR
MSP430A078IN	MSP430F1610IRTD	MSP430F2274IRHAR	MSP430F47127IPZR	MSP430V153IRHA
MSP430A078IPW	MSP430F1610IRTD	MSP430F2274IRHAT	MSP430F47163IPZ	MSP430V153IRHAR
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MSP430A078IRSAR	MSP430F1611IPMR	MSP430F2274TDAR	MSP430F47166IPZ	MSP430V156IPN
MSP430A078IRSAT	MSP430F1611IRTD	MSP430F2274TRHAR	MSP430F47166IPZR	MSP430V157IPN
MSP430A078TN	MSP430F1611IRTD	MSP430F2274TRHAT	MSP430F47167IPZ	MSP430V158IPM
MSP430A078TPW	MSP430F1612IPM	MSP430F2330IRHAR	MSP430F47167IPZR	MSP430V159IRHAR
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MSP430A078TRSAR	MSP430F1612IRTD	MSP430F2330TRHAR	MSP430F47173IPZR	MSP430V162IPMR
MSP430A078RSAT	MSP430F1612IRTD	MSP430F2330TRHAT	MSP430F47176IPZ	MSP430V163IPMR
MSP430A079IPN	MSP430F167IPM	MSP430F233TPM	MSP430F47176IPZR	MSP430V164IRGER
MSP430A079IPNR	MSP430F167IPMR	MSP430F233TPMR	MSP430F47177IPZ	MSP430V164IRGERG4
MSP430A080IPM	MSP430F167IRTD	MSP430F233TRGC	MSP430F47177IPZR	MSP430V165IPZR
MSP430A080IPMR	MSP430F167IRTD	MSP430F233TRGCR	MSP430F47183IPZ	MSP430V167IDAR
MSP430A081IPW	MSP430F168IPM	MSP430F233TRGCT	MSP430F47183IPZR	MSP430V168IPNR
MSP430A081IPWR	MSP430F168IPMR	MSP430F2350IRHAR	MSP430F47186IPZ	MSP430V169IPZ
MSP430A086IPZ	MSP430F168IRTD	MSP430F2350IRHAT	MSP430F47186IPZR	MSP430V169IPZR
MSP430A086IPZR	MSP430F168IRTD	MSP430F2350TRHAR	MSP430F47187IPZ	MSP430V170IRTD
MSP430A088IPWR	MSP430F169IPM	MSP430F2350TRHAT	MSP430F47187IPZR	MSP430V172TRGCR
MSP430A090IPMR	MSP430F169IPMR	MSP430F235TPM	MSP430F47193IPZ	MSP430V174IPM
MSP430A091IPMR	MSP430F169IRTD	MSP430F235TPMR	MSP430F47193IPZR	MSP430V175IPMR
MSP430A092IPMR	MSP430F169IRTD	MSP430F235TRGC	MSP430F47196IPZ	MSP430V176IDAR
MSP430A093IPMR	MSP430F2001IN	MSP430F235TRGCR	MSP430F47196IPZR	MSP430V178IRGCR
MSP430A094IPMR	MSP430F2001IPW	MSP430F235TRGCT	MSP430F47197IPZ	MSP430V179IPMR
MSP430A095IPN	MSP430F2001IPWR	MSP430F2370IRHA	MSP430F47197IPZR	MSP430V180IPZR
MSP430A097IPM	MSP430F2001IRSAR	MSP430F2370IRHAR	MSP430F4771PN	MSP430V182IPMR
MSP430A099IPMR	MSP430F2001IRSAT	MSP430F2370IRHAT	MSP430F4771PNR	MSP430V183IPMR
MSP430A100IPMR	MSP430F2001TN	MSP430F2370TRHA	MSP430F4783IPZ	MSP430V184IRGCR
MSP430A101IPMR	MSP430F2001TPW	MSP430F2370TRHAR	MSP430F4783IPZR	MSP430V185IPWR
MSP430A102IPMR	MSP430F2001TPWR	MSP430F2370TRHAT	MSP430F4784IPZ	MSP430V186IPM
MSP430A103IPMR	MSP430F2001TRSAR	MSP430F2410TPM	MSP430F4784IPZR	MSP430V187IPMR
MSP430A104IPMR	MSP430F2001RSAT	MSP430F2410TPMR	MSP430F4781PN	MSP430V191IPZR
MSP430A105IPMR	MSP430F2002IN	MSP430F2410TRGC	MSP430F4781PNR	MSP430V192IRHAR
MSP430A106IPMR	MSP430F2002IPW	MSP430F2410TRGCR	MSP430F4793IPZ	MSP430V194IPMR
MSP430A107IPMR	MSP430F2002IPWR	MSP430F2410TRGCT	MSP430F4793IPZR	MSP430V195IPMR
MSP430A108IPMR	MSP430F2002IRSAR	MSP430F2416TPM	MSP430F4794IPZ	MSP430V196IPWR
MSP430A108IPN	MSP430F2002IRSAT	MSP430F2416TPMR	MSP430F4794IPZR	MSP430V197IPMR
MSP430A109IPMR	MSP430F2002TN	MSP430F2416TPN	MSP430F4794SNIPZ	MSP430V198IPMR
MSP430A110IPMR	MSP430F2002TPW	MSP430F2416TPNR	MSP430F4794SNIPZR	MSP430V199IDAR
MSP430A111IPMR	MSP430F2002TPWR	MSP430F2417TPM	MSP430F4796IPZ	MSP430V200IPMR
MSP430A112IPMR	MSP430F2002TRSAR	MSP430F2417TPMR	MSP430F4796IPZR	MSP430V201IRGZR
MSP430A113IPMR	MSP430F2002RSAT	MSP430F2417TPN	MSP430F4797IPZ	MSP430V202IPM
MSP430A114IPMR	MSP430F2003IN	MSP430F2417TPNR	MSP430F4797IPZR	MSP430V203IRGER

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MSP430A115IPMR	MSP430F2003IPW	MSP430F2418TPM	MSP430F479IPN	MSP430V204TRGCR
MSP430A116IPMR	MSP430F2003IPWR	MSP430F2418TPMR	MSP430F479IPNR	MSP430V205IRHAR
MSP430A117IPMR	MSP430F2003IRSAR	MSP430F2418TPN	MSP430FE4232IPM	MSP430V207IPZR
MSP430A118IPMR	MSP430F2003IRSAT	MSP430F2418TPNR	MSP430FE4232IPMR	MSP430V208IRGZR
MSP430A119IPMR	MSP430F2003TN	MSP430F2419TPM	MSP430FE423AIPM	MSP430V209TPMR
MSP430A120IPMR	MSP430F2003TPW	MSP430F2419TPMR	MSP430FE423AIPMR	MSP430V210TRGCR
MSP430A121IPMR	MSP430F2003TPWR	MSP430F2419TPN	MSP430FE423IPM	MSP430V211IRHAR
MSP430A122IPMR	MSP430F2003TRSAR	MSP430F2419TPNR	MSP430FE423IPMR	MSP430V212IPWR
MSP430A123IPMR	MSP430F2003TRSAT	MSP430F2471TPM	MSP430FE4242IPM	MSP430V214IPWR
MSP430A124IPMR	MSP430F2011IN	MSP430F2471TPMR	MSP430FE4242IPMR	MSP430V221IPMR
MSP430A125IPZR	MSP430F2011IPW	MSP430F2471TRGC	MSP430FE4252IPM	MSP430V222IPMR
MSP430A126IPMR	MSP430F2011IPWR	MSP430F2471TRGCR	MSP430FE4252IPMR	MSP430V224IPWR
MSP430A127IPMR	MSP430F2011IRSAR	MSP430F2471TRGCT	MSP430FE425AIPM	MSP430V225IPMR
MSP430A128IPMR	MSP430F2011IRSAT	MSP430F247TPM	MSP430FE425AIPMR	MSP430V227IPMR
MSP430A129IPMR	MSP430F2011TN	MSP430F247TPMR	MSP430FE425IPM	MSP430V228IPMR
MSP430A130IN	MSP430F2011TPW	MSP430F247TRGC	MSP430FE425IPMR	MSP430V229IRSAR
MSP430A130IPW	MSP430F2011TPWR	MSP430F247TRGCR	MSP430FE4272IPM	MSP430V230IPMR
MSP430A130IPWR	MSP430F2011TRSAR	MSP430F247TRGCT	MSP430FE4272IPMR	MSP430V231IPZR
MSP430A130IRSAR	MSP430F2011TRSAT	MSP430F2481TPM	MSP430FE427AIPM	MSP430V233IPWR
MSP430A130IRSAT	MSP430F2012IN	MSP430F2481TPMR	MSP430FE427AIPMR	MSP430V234IPZR
MSP430A130TN	MSP430F2012IPW	MSP430F2481TRGC	MSP430FE427IPM	MSP430V235IPMR
MSP430A130TPW	MSP430F2012IPWR	MSP430F2481TRGCR	MSP430FE427IPMR	MSP430V236TPMR
MSP430A130TPWR	MSP430F2012IRSAR	MSP430F2481TRGCT	MSP430FE4481IPZ	MSP430V237TDAR
MSP430A130TRSAR	MSP430F2012IRSAT	MSP430F248TPM	MSP430FE4481IPZR	MSP430V239IDWR
MSP430A130TRSAT	MSP430F2012TN	MSP430F248TPMR	MSP430FE4482IPZ	MSP430V240TRHAR
MSP430A131IPZR	MSP430F2012TPW	MSP430F248TRGC	MSP430FE4482IPZR	MSP430V241IPMR
MSP430A135IPZ	MSP430F2012TPWR	MSP430F248TRGCR	MSP430FE4491IPZ	MSP430V245IDWR
MSP430A136IPZ	MSP430F2012TRSAR	MSP430F248TRGCT	MSP430FE4491IPZR	MSP430V247IPWR
MSP430A136IPZR	MSP430F2012TRSAT	MSP430F2491TPM	MSP430FE4492IPZ	MSP430V248IPNR
MSP430A137IPZ	MSP430F2013IN	MSP430F2491TPMR	MSP430FE4492IPZR	MSP430V250IPZ
MSP430A137IPZR	MSP430F2013IPW	MSP430F2491TRGC	MSP430FG4250IDL	MSP430V250IPZR
MSP430A138IPNR	MSP430F2013IPWR	MSP430F2491TRGCR	MSP430FG4250IDLR	MSP430V251IDAR
MSP430A139IPZR	MSP430F2013IRSAR	MSP430F2491TRGCT	MSP430FG4250IRGZR	MSP430V253IRSAR
MSP430A140IPMR	MSP430F2013IRSAT	MSP430F2491TRHAR	MSP430FG4250IRGZT	MSP430V254IPZR
MSP430A141IRSAR	MSP430F2013TN	MSP430F249TPM	MSP430FG4260IDL	MSP430V255IPWR
MSP430A142IRHAR	MSP430F2013TPW	MSP430F249TPMR	MSP430FG4260IDLR	MSP430V256IRSAR
MSP430A142IRHAT	MSP430F2013TPWR	MSP430F249TRGC	MSP430FG4260IRGZR	MSP430V257IPZR
MSP430CG4619IPZ	MSP430F2013TRSAR	MSP430F249TRGCR	MSP430FG4260IRGZT	MSP430V258IRHBR
MSP430CG4619IPZR	MSP430F2013TRSAT	MSP430F249TRGCT	MSP430FG4270IDL	MSP430V259IRGZR
MSP430F1101AIDGV	MSP430F2101IDGV	MSP430F2616TPM	MSP430FG4270IDLR	MSP430V260IRHAR
MSP430F1101AIDGVR	MSP430F2101IDGVR	MSP430F2616TPMR	MSP430FG4270IRGZR	MSP430V261IRHAR
MSP430F1101AIDW	MSP430F2101IDW	MSP430F2616TPN	MSP430FG4270IRGZT	MSP430V262IPMR
MSP430F1101AIDWR	MSP430F2101IDWR	MSP430F2616TPNR	MSP430FG4371PN	MSP430V263IPZR
MSP430F1101AIPW	MSP430F2101IPW	MSP430F2617TPM	MSP430FG4371PNR	MSP430V265TPMR
MSP430F1101AIPWR	MSP430F2101IPWR	MSP430F2617TPMR	MSP430FG438IPN	MSP430V266TPNR
MSP430F1101AIRGER	MSP430F2101IRGER	MSP430F2617TPN	MSP430FG438IPNR	MSP430V267IPMR
MSP430F1101AIRGET	MSP430F2101IRGET	MSP430F2617TPNR	MSP430FG439IPN	MSP430V268IPMR
MSP430F1111AIDGV	MSP430F2101TDGV	MSP430F2618TPM	MSP430FG439IPNR	MSP430V270IPMR
MSP430F1111AIDGVR	MSP430F2101TDGVR	MSP430F2618TPMR	MSP430FG4616IPZ	MSP430V271IPMR
MSP430F1111AIDW	MSP430F2101TDW	MSP430F2618TPN	MSP430FG4616IPZR	MSP430V272IPNR
MSP430F1111AIDWR	MSP430F2101TDWR	MSP430F2618TPNR	MSP430FG4617IPZ	MSP430V274IPMR
MSP430F1111AIPW	MSP430F2101TPW	MSP430F2619TPM	MSP430FG4617IPZR	MSP430V276IPMR
MSP430F1111AIPWR	MSP430F2101TPWR	MSP430F2619TPMR	MSP430FG4618IPZ	MSP430V277IRSAR
MSP430F1111AIRGER	MSP430F2101TRGER	MSP430F2619TPN	MSP430FG4618IPZR	MSP430V278IRSAR
MSP430F1111AIRGET	MSP430F2101TRGET	MSP430F2619TPNR	MSP430FG4619IPZ	MSP430V279IPMR
MSP430F1121AIDGV	MSP430F2111IDGV	MSP430F412IPM	MSP430FG4619IPZR	SN0309070PMR
MSP430F1121AIDGVR	MSP430F2111IDGVR	MSP430F412IPMR	MSP430FG477IPN	SN0807028IPZR
MSP430F1121AIDW	MSP430F2111IDW	MSP430F412IRTRDR	MSP430FG477IPNR	

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信頼性試験

信頼性試験結果

信頼性試験 - 試料構成詳細

Qual Device:	MSP430F2132PWR	-	-
Assembly Site:	MLA	Package/Code/Pins:	TSSOP/PW/28
Die Attach:	HITACHI EN4088Z	Mold Compound:	Nitto GE1030MDP
MSL:	JEDEC L-1/260C	Lead Finish:	NiPdAu

信頼性試験結果

Reliability Test	Condition / Duration	Sample Size/ Fails
Manufacturability	-	Approved
Autoclave	121C, 96hrs	231/0
Temp Cycle	-65C/150C, 500Cyc	231/0
High Temp Bake	170C, 420hrs	231/0

信頼性試験結果

信頼性試験 - 試料構成詳細

Qual Device:	MSP430F2370IRHAR	-	-
Assembly Site:	MLA	Package/Code/Pins:	QFN/RHA/40
Die Attach:	ABLESTIK 8290	Mold Compound:	Sumitomo EME-G770HCD
MSL:	JEDEC L-3/260C	Lead Finish:	NiPdAu

信頼性試験結果

Reliability Test	Condition / Duration	Sample Size/ Fails
Manufacturability	-	Approved
Autoclave	121C, 96hrs	231/0
Temp Cycle	-65C/150C, 500Cyc	231/0
High Temp Bake	170C, 420hrs	231/0

信頼性試験結果

信頼性試験 - 試料構成詳細

Qual Device:	MSP430F2274IDA	-	-
Assembly Site:	TAI	Package/Code/Pins:	TSSOP/DA/38
Die Attach:	HITACHI EN-4088Z	Mold Compound:	Nitto GE1030MDP
MSL:	JEDEC L-2/260C	-	-

信頼性試験結果

Reliability Test	Condition / Duration	Sample Size/ Fails
Manufacturability	-	Approved
Autoclave	121C, 96hrs	231/0
Temp Cycle	-65C/150C, 500Cyc	231/0
High Temp Bake	170C, 420hrs	200/0

信頼性試験結果

信頼性試験 - 試料構成詳細

Qual Device:	MSP430FG4619IPZ	-	-
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PZ/100
Die Attach:	HITACHI EN4085S2K3	Mold Compound:	HITACHI CEL9200HF-13
MSL:	JEDEC L-3/260C	-	-

信頼性試験結果

Reliability Test	Condition / Duration	Sample Size/ Fails
Manufacturability	-	Approved
Autoclave	121C, 96hrs	231/0
Temp Cycle	-65C/150C, 500Cyc	231/0
High Temp Bake	170C, 420hrs	231/0

信頼性試験結果

信頼性試験 - 試料構成詳細

Qual Device:	MSP430F47197IPZ	-	-
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PZ/100
Die Attach:	HITACHI EN4085S2K3	Mold Compound:	HITACHI CEL9200HF-13
MSL:	JEDEC L-3/260C	-	-

信頼性試験結果

Reliability Test	Condition / Duration	Sample Size/ Fails
Manufacturability	-	Approved

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信頼性試験結果			
信頼性試験 - 試料構成詳細			
Qual Device:	MSP430F2619TPN	-	-
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PN/80
Die Attach:	HITACHI EN4085S2K3	Mold Compound:	HITACHI CEL9200HF-13
MSL:	JEDEC L-3/260C	-	-
信頼性試験結果			
Reliability Test	Condition / Duration	Sample Size/ Fails	
Manufacturability	-	Approved	

信頼性試験結果			
信頼性試験 - 試料構成詳細			
Qual Device:	MSP430TEXAS2IPMR	-	-
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PM/64
Die Attach:	HITACHI EN4085S2K3	Mold Compound:	HITACHI CEL9200HF-13
MSL:	JEDEC L-3/260C	-	-
信頼性試験結果			
Reliability Test	Condition / Duration	Sample Size/ Fails	
Manufacturability	-	Approved	