



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

2009 年 12 月 21 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 カスタムドキュメント

マネージャ 牧 達郎 (牧)

MSP430 一部製品 Cu(銅)線ボンディングワイア変更予定のご案内

拝啓 貴社益々ご清栄の事とお喜び申し上げます。平素は弊社製品のご愛顧を賜り、厚く御礼申し上げます。さて、標題の件につきまして下記にご連絡させていただきます。ご査収の程、宜しくお願い申し上げます。

敬具

－ 記 －

通知タイプ	■Initial notice (Plan)	□Final notice
変更概要	Design/Specification	□Design □Electrical □Mechanical
	Wafer Fab	□Site □Process □Material
	Wafer Bump	□Site □Process □Material
	■Assembly	□Site □Process ■Material
	Test	□Site □Process
	Others	□Packing/Shipping/Labeling □ -
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	2010 年 3 月下旬の出荷より予定しています。 (サンプル出荷は 12 月下旬より予定しています。)	
品質認定試験	■計画	□終了
製品表示	■変更無し	□変更あり
備考	—	

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にお問い合わせ下さい。

以上

変更内容

内容: 今回のお知らせは、下記変更実施についての一次予定の連絡になります。最終的なお知らせは、弊社内変更審査が終了次第、認定試験の結果を含め、本PCNの更新版の発行をもって連絡させていただきます。尚、変更品の出荷につきましては、本通知の90日以降に予定いたしております。

弊社 ASP-AEC(アドバンストエンベディドコントロール) 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する予定です。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

ボンディングワイア

現行

Au(金)線

変更後

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				
MSP430A001IPM	MSP430F1121AIPWR	MSP430F2111IPWR	MSP430F4132IPMR	MSP430FG479IPN
MSP430A001IPMR	MSP430F1121AIRGE	MSP430F2111IRGER	MSP430F4132IRGZ	MSP430FG479IPNR
MSP430A002IPM	MSP430F1121AIRGER	MSP430F2111IRGET	MSP430F4132IRGZR	MSP430FW423IPM
MSP430A002IPMR	MSP430F1121AIRGET	MSP430F2111TDGV	MSP430F4132IRGZT	MSP430FW423IPMR
MSP430A003IPW	MSP430F1122IDW	MSP430F2111TDGVR	MSP430F4131PM	MSP430FW425IPM
MSP430A003IPWR	MSP430F1122IDWR	MSP430F2111TDW	MSP430F4131PMR	MSP430FW425IPMR
MSP430A004IPW	MSP430F1122IPW	MSP430F2111TDWR	MSP430F4131RTD	MSP430FW427IPM
MSP430A004IPWR	MSP430F1122IPWR	MSP430F2111TPW	MSP430F4131RTDR	MSP430FW427IPMR
MSP430A005IPW	MSP430F1122IRHBR	MSP430F2111TPWR	MSP430F4131RTDT	MSP430T100IPM
MSP430A005IPWR	MSP430F1122IRHBT	MSP430F2111TRGER	MSP430F4152IPM	MSP430T101IPM
MSP430A006IPW	MSP430F1132IDW	MSP430F2111TRGET	MSP430F4152IPMR	MSP430T101IPMR
MSP430A006IPWR	MSP430F1132IDWR	MSP430F2112IPW	MSP430F4152IRGZ	MSP430T103IPM
MSP430A006IRTDR	MSP430F1132IPW	MSP430F2112IPWR	MSP430F4152IRGZR	MSP430T103IPMR
MSP430A006IRTDT	MSP430F1132IPWR	MSP430F2112IRHBR	MSP430F4152IRGZT	MSP430TC0701IPZ
MSP430A007IPW	MSP430F1132IRHBR	MSP430F2112IRHBT	MSP430F4151PM	MSP430TEXAS2IPEG
MSP430A007IPWR	MSP430F1132IRHBT	MSP430F2112TPW	MSP430F4151PMR	MSP430TEXAS2IPEGR
MSP430A007IRTDR	MSP430F1222IDW	MSP430F2112TPWR	MSP430F4151RTDR	MSP430TEXAS2IPM
MSP430A007IRTDT	MSP430F1222IDWR	MSP430F2112TRHBR	MSP430F4151RTDT	MSP430TEXAS2IPMR
MSP430A008IPN	MSP430F1222IPW	MSP430F2112TRHBT	MSP430F417IPM	MSP430U227IPMR
MSP430A009IPM	MSP430F1222IPWR	MSP430F2121IDGV	MSP430F417IPMR	MSP430U259IDWR
MSP430A009IPMR	MSP430F1222IRHBR	MSP430F2121IDGVR	MSP430F417IRTDR	MSP430U266IPMR
MSP430A010IPM	MSP430F1222IRHBT	MSP430F2121IDW	MSP430F417IRTDT	MSP430U273IPWR
MSP430A010IPMR	MSP430F122IDW	MSP430F2121IDWR	MSP430F4230IDL	MSP430U276IPWR
MSP430A011IPMR	MSP430F122IDWR	MSP430F2121IPW	MSP430F4230IDLR	MSP430U286IPWR
MSP430A012IDW	MSP430F122IPW	MSP430F2121IPWR	MSP430F423AIPM	MSP430U287IPMR
MSP430A012IDWR	MSP430F122IPWR	MSP430F2121IRGER	MSP430F423AIPMR	MSP430U288IPMR
MSP430A013IPM	MSP430F122IRHBR	MSP430F2121IRGET	MSP430F423IPM	MSP430U293IPWR
MSP430A013IPMR	MSP430F122IRHBT	MSP430F2121TDGV	MSP430F423IPMR	MSP430U295IPMR
MSP430A014IPMR	MSP430F1232IDW	MSP430F2121TDGVR	MSP430F423IRTDR	MSP430U299IPWR
MSP430A015IPM	MSP430F1232IDWR	MSP430F2121TDW	MSP430F423IRTDT	MSP430U300IPMR
MSP430A015IPMR	MSP430F1232IPW	MSP430F2121TDWR	MSP430F4250IDL	MSP430U307IPM
MSP430A017IPN	MSP430F1232IPWR	MSP430F2121TPW	MSP430F4250IDLR	MSP430U309IPMR
MSP430A018IPN	MSP430F1232IRHBR	MSP430F2121TPWR	MSP430F4250IRGZR	MSP430U310IPMR
MSP430A021IPW	MSP430F1232IRHBT	MSP430F2121TRGER	MSP430F4250IRGZT	MSP430U311IPMR
MSP430A021IRSAR	MSP430F123IDW	MSP430F2121TRGET	MSP430F425AIPM	MSP430U315IPMR
MSP430A023IPM	MSP430F123IDWR	MSP430F2122IPW	MSP430F425AIPMR	MSP430U320IDWR
MSP430A023IPMR	MSP430F123IPW	MSP430F2122IPWR	MSP430F425IPM	MSP430U321IPMR
MSP430A024IPM	MSP430F123IPWR	MSP430F2122IRHBR	MSP430F425IPMR	MSP430U323IPZ
MSP430A024IPMR	MSP430F123IPWR-HYD	MSP430F2122IRHBT	MSP430F425IRTDR	MSP430U324IPZR
MSP430A025IPM	MSP430F123IRHBR	MSP430F2122TPW	MSP430F425IRTDT	MSP430U329IPZ
MSP430A025IPMR	MSP430F123IRHBT	MSP430F2122TPWR	MSP430F4260IDL	MSP430U329IPZR
MSP430A026IPM	MSP430F133IPAG	MSP430F2122TRHBR	MSP430F4260IDLR	MSP430U332IPMR
MSP430A026IPMR	MSP430F133IPAGR	MSP430F2122TRHBT	MSP430F4260IRGZR	MSP430U334IPZR
MSP430A027IPM	MSP430F133IPM	MSP430F2131IDGV	MSP430F4260IRGZT	MSP430U335IPWR
MSP430A027IPMR	MSP430F133IPMR	MSP430F2131IDGVR	MSP430F4270IDL	MSP430U337IPW

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MSP430A028IPM	MSP430F133IRTD	MSP430F2131IDW	MSP430F4270IDLR	MSP430U337IPWR
MSP430A028IPMR	MSP430F133IRTD	MSP430F2131IDWR	MSP430F4270IRGZR	MSP430U339IPWR
MSP430A029IPM	MSP430F135IPAG	MSP430F2131IPW	MSP430F4270IRGZT	MSP430U340IPM
MSP430A029IPMR	MSP430F135IPAGR	MSP430F2131IPWR	MSP430F427AIPM	MSP430U341IPMR
MSP430A030IPW	MSP430F135IPM	MSP430F2131IRGER	MSP430F427AIPMR	MSP430U343IPWR
MSP430A030IPWR	MSP430F135IPMR	MSP430F2131IRGET	MSP430F427IPM	MSP430U344IPWR
MSP430A030IRSAR	MSP430F135IRTD	MSP430F2131TDGV	MSP430F427IPMR	MSP430U345IPMR
MSP430A030IRSAT	MSP430F135IRTD	MSP430F2131TDGVR	MSP430F427IRTD	MSP430V100IPWR
MSP430A034IPW	MSP430F1471IPM	MSP430F2131TDW	MSP430F427IRTD	MSP430V102IPM
MSP430A034IPWR	MSP430F1471IPMR	MSP430F2131TDWR	MSP430F4351IPN	MSP430V103IPM
MSP430A034IRSAR	MSP430F1471IPMRG4	MSP430F2131TPW	MSP430F4351IPNR	MSP430V103IPMR
MSP430A034IRSAT	MSP430F1471IRTD	MSP430F2131TPWR	MSP430F4351IPZ	MSP430V104IPM
MSP430A038IRSAR	MSP430F1471IRTD	MSP430F2131TRGER	MSP430F4351IPZR	MSP430V106IRTD
MSP430A038IRSAT	MSP430F147IPAG	MSP430F2131TRGET	MSP430F4351IPN	MSP430V106IRTDG4
MSP430A039IRHBR	MSP430F147IPAGR	MSP430F2132IPW	MSP430F4351IPNR	MSP430V107IPMR
MSP430A039IRHBT	MSP430F147IPM	MSP430F2132IPWR	MSP430F4351IPNR24	MSP430V108IDLR
MSP430A040IRSAR	MSP430F147IPMR	MSP430F2132IRHB	MSP430F4351IPZ	MSP430V109IPZ
MSP430A040IRSAT	MSP430F147IPMRG4	MSP430F2132IRHBR	MSP430F4351IPZR	MSP430V109IPZR
MSP430A041IPM	MSP430F147IPMR-KAM	MSP430F2132IRHBT	MSP430F4361IPN	MSP430V110IPMR
MSP430A041IPMR	MSP430F147IRTD	MSP430F2132TPW	MSP430F4361IPNR	MSP430V111IPM
MSP430A041IRTD	MSP430F147IRTD	MSP430F2132TPWR	MSP430F4361IPNRKAM	MSP430V111IPMR
MSP430A041IRTD	MSP430F1481IPM	MSP430F2132TRHBR	MSP430F4361IPZ	MSP430V112IRHAR
MSP430A042IRHAR	MSP430F1481IPMR	MSP430F2132TRHBT	MSP430F4361IPZR	MSP430V112IRHAT
MSP430A042IRHAT	MSP430F1481IRTD	MSP430F2232IDA	MSP430F4361IPN	MSP430V114IPM
MSP430A043IRGER	MSP430F1481IRTDG4	MSP430F2232IDAR	MSP430F4361IPNR	MSP430V115IPNR
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MSP430A044IPM	MSP430F148IPAG	MSP430F2232IRHAT	MSP430F4361IPZ	MSP430V118IPM
MSP430A044IPMR	MSP430F148IPAGR	MSP430F2232IDA	MSP430F4361IPZR	MSP430V118IPMR
MSP430A045IPWR	MSP430F148IPM	MSP430F2232TDAR	MSP430F4371IPN	MSP430V119IRTD
MSP430A046IPZ	MSP430F148IPMG4	MSP430F2232TRHAR	MSP430F4371IPNR	MSP430V120IRTD
MSP430A046IPZR	MSP430F148IPMR	MSP430F2232TRHAT	MSP430F4371IPZ	MSP430V121IRHAR
MSP430A047IPZ	MSP430F148IRTD	MSP430F2234IDA	MSP430F4371IPZR	MSP430V122IPMR
MSP430A047IPZR	MSP430F148IRTD	MSP430F2234IDAR	MSP430F4371IPN	MSP430V123IPMR
MSP430A048IPM	MSP430F1491IPM	MSP430F2234IRHAR	MSP430F4371IPNR	MSP430V124IPWR
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MSP430A049IPM	MSP430F1491IPMR	MSP430F2234TDA	MSP430F4371IPZR	MSP430V125TPW
MSP430A049IPMR	MSP430F1491IPMRG4	MSP430F2234TDAR	MSP430F4471IPZ	MSP430V125TPWR
MSP430A050IPM	MSP430F1491IRTD	MSP430F2234TRHAR	MSP430F4471IPZR	MSP430V126IRHAR
MSP430A050IPMR	MSP430F1491IRTD	MSP430F2234TRHAT	MSP430F4481IPZ	MSP430V126IRHARG4
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MSP430A051IPMR	MSP430F149IPAG	MSP430F2252IDAR	MSP430F4481IPZ	MSP430V127IPMR
MSP430A052IPW	MSP430F149IPAGR	MSP430F2252IRHAR	MSP430F4481IPZR	MSP430V129IPW
MSP430A052IPWR	MSP430F149IPM	MSP430F2252IRHAT	MSP430F4491IPZ	MSP430V129IPWR
MSP430A053IPW	MSP430F149IPMG4	MSP430F2252TDA	MSP430F4491IPZR	MSP430V130IRGZR
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MSP430A054IPN	MSP430F149IPMRG4	MSP430F2252TRHAR	MSP430F4491IPZR	MSP430V132IRHAR
MSP430A055IPM	MSP430F149IPMR-KAM	MSP430F2252TRHAT	MSP430F46161IPZ	MSP430V132IRHARG4
MSP430A056IPM	MSP430F149IRTD	MSP430F2254IDA	MSP430F46161IPZR	MSP430V133IPWR
MSP430A057IPMR	MSP430F149IRTDG4	MSP430F2254IDAR	MSP430F46161IPZ	MSP430V134IPWR
MSP430A058IRHBR	MSP430F149IRTD	MSP430F2254IRHAR	MSP430F46161IPZR	MSP430V135IPN
MSP430A059IPM	MSP430F149IRTDG4	MSP430F2254IRHAT	MSP430F46171IPZ	MSP430V135IPNR
MSP430A059IPMR	MSP430F155IPM	MSP430F2254TDA	MSP430F46171IPZR	MSP430V136IDLR
MSP430A059IRTD	MSP430F155IPMR	MSP430F2254TDAR	MSP430F46171IPZ	MSP430V137IPAGR
MSP430A059IRTD	MSP430F155IRTD	MSP430F2254TRHAR	MSP430F46171IPZR	MSP430V138TDA
MSP430A061IDAR	MSP430F155IRTD	MSP430F2254TRHAT	MSP430F46181IPZ	MSP430V138TRHAR
MSP430A062IPZ	MSP430F156IPM	MSP430F2272IDA	MSP430F46181IPZR	MSP430V138TRHAT
MSP430A062IPZR	MSP430F156IPMR	MSP430F2272IDAR	MSP430F46181IPZ	MSP430V142IPMR
MSP430A064IPM	MSP430F156IRTD	MSP430F2272IRHAR	MSP430F46181IPZR	MSP430V143IPM
MSP430A065IRHBR	MSP430F156IRTD	MSP430F2272IRHAT	MSP430F46191IPZ	MSP430V144IRHBR
MSP430A066IPN	MSP430F157IPM	MSP430F2272TDA	MSP430F46191IPZR	MSP430V145IPWR
MSP430A066IPNR	MSP430F157IPMR	MSP430F2272TDAR	MSP430F46191IPZ	MSP430V146IPMR
MSP430A066IPZ	MSP430F157IRTD	MSP430F2272TRHAR	MSP430F46191IPZR	MSP430V147IPWR
MSP430A066IPZR	MSP430F157IRTD	MSP430F2272TRHAT	MSP430F47126IPZ	MSP430V148IPN
MSP430A067IRGER	MSP430F1610IPM	MSP430F2274IDA	MSP430F47126IPZR	MSP430V151IPMR
MSP430A068IRHAR	MSP430F1610IPMR	MSP430F2274IDAR	MSP430F47127IPZ	MSP430V152IDWR
MSP430A069IPZ	MSP430F1610IRTD	MSP430F2274IRHAR	MSP430F47127IPZR	MSP430V153IRHA

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MSP430A076TPMR	MSP430F1610IRTD	MSP430F2274IRHAT	MSP430F47163IPZ	MSP430V153IRHAR
MSP430A078IN	MSP430F1611IPM	MSP430F2274TDA	MSP430F47163IPZR	MSP430V155IPNR
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MSP430A078IPWR	MSP430F1611IRTD	MSP430F2274TRHAR	MSP430F47166IPZR	MSP430V157IPN
MSP430A078IRSAR	MSP430F1611IRTD	MSP430F2274TRHAT	MSP430F47167IPZ	MSP430V158IPM
MSP430A078IRSAT	MSP430F1612IPM	MSP430F2330IRHAR	MSP430F47167IPZR	MSP430V159IRHAR
MSP430A078TN	MSP430F1612IPMR	MSP430F2330IRHAT	MSP430F47173IPZ	MSP430V160IPMR
MSP430A078TPW	MSP430F1612IRTD	MSP430F2330TRHAR	MSP430F47173IPZR	MSP430V162IPMR
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MSP430A078TRSAR	MSP430F167IPM	MSP430F233TPM	MSP430F47176IPZR	MSP430V164IRGER
MSP430A078TRSAT	MSP430F167IPMR	MSP430F233TPMR	MSP430F47177IPZ	MSP430V164IRGERG4
MSP430A079IPN	MSP430F167IRTD	MSP430F233TRGC	MSP430F47177IPZR	MSP430V165IPZR
MSP430A079IPNR	MSP430F167IRTD	MSP430F233TRGCR	MSP430F47183IPZ	MSP430V167IDAR
MSP430A080IPM	MSP430F168IPM	MSP430F233TRGCT	MSP430F47183IPZR	MSP430V168IPNR
MSP430A080IPMR	MSP430F168IPMR	MSP430F2350IRHAR	MSP430F47186IPZ	MSP430V169IPZ
MSP430A081IPW	MSP430F168IRTD	MSP430F2350IRHAT	MSP430F47186IPZR	MSP430V169IPZR
MSP430A081IPWR	MSP430F168IRTD	MSP430F2350TRHAR	MSP430F47187IPZ	MSP430V170IRTD
MSP430A086IPZ	MSP430F169IPM	MSP430F2350TRHAT	MSP430F47187IPZR	MSP430V172TRGCR
MSP430A086IPZR	MSP430F169IPMR	MSP430F235TPM	MSP430F47193IPZ	MSP430V174IPM
MSP430A088IPWR	MSP430F169IRTD	MSP430F235TPMR	MSP430F47193IPZR	MSP430V175IPMR
MSP430A090IPMR	MSP430F169IRTD	MSP430F235TRGC	MSP430F47196IPZ	MSP430V176IDAR
MSP430A091IPMR	MSP430F2001IN	MSP430F235TRGCR	MSP430F47196IPZR	MSP430V178IRGCR
MSP430A092IPMR	MSP430F2001IPW	MSP430F235TRGCT	MSP430F47197IPZ	MSP430V179IPMR
MSP430A093IPMR	MSP430F2001IPWR	MSP430F2370IRHA	MSP430F47197IPZR	MSP430V180IPZR
MSP430A094IPMR	MSP430F2001IRSAR	MSP430F2370IRHAR	MSP430F477IPN	MSP430V182IPMR
MSP430A095IPN	MSP430F2001IRSAT	MSP430F2370IRHAT	MSP430F477IPNR	MSP430V183IPMR
MSP430A097IPM	MSP430F2001TN	MSP430F2370TRHA	MSP430F4783IPZ	MSP430V184IRGCR
MSP430A099IPMR	MSP430F2001TPW	MSP430F2370TRHAR	MSP430F4783IPZR	MSP430V185IPWR
MSP430A100IPMR	MSP430F2001TPWR	MSP430F2370TRHAT	MSP430F4784IPZ	MSP430V186IPM
MSP430A101IPMR	MSP430F2001TRSAR	MSP430F2410TPM	MSP430F4784IPZR	MSP430V187IPMR
MSP430A102IPMR	MSP430F2001TRSAT	MSP430F2410TPMR	MSP430F478IPN	MSP430V191IPZR
MSP430A103IPMR	MSP430F2002IN	MSP430F2410TRGC	MSP430F478IPNR	MSP430V192IRHAR
MSP430A104IPMR	MSP430F2002IPW	MSP430F2410TRGCR	MSP430F4793IPZ	MSP430V194IPMR
MSP430A105IPMR	MSP430F2002IPWR	MSP430F2410TRGCT	MSP430F4793IPZR	MSP430V195IPMR
MSP430A106IPMR	MSP430F2002IRSAR	MSP430F2416TPM	MSP430F4794IPZ	MSP430V196IPWR
MSP430A107IPMR	MSP430F2002IRSAT	MSP430F2416TPMR	MSP430F4794IPZR	MSP430V197IPMR
MSP430A108IPMR	MSP430F2002TN	MSP430F2416TPN	MSP430F4794SNIPZ	MSP430V198IPMR
MSP430A108IPN	MSP430F2002TPW	MSP430F2416TPNR	MSP430F4794SNIPZR	MSP430V199IDAR
MSP430A109IPMR	MSP430F2002TPWR	MSP430F2417TPM	MSP430F4796IPZ	MSP430V200IPMR
MSP430A110IPMR	MSP430F2002TRSAR	MSP430F2417TPMR	MSP430F4796IPZR	MSP430V201IRGZR
MSP430A111IPMR	MSP430F2002TRSAT	MSP430F2417TPN	MSP430F4797IPZ	MSP430V202IPM
MSP430A112IPMR	MSP430F2003IN	MSP430F2417TPNR	MSP430F4797IPZR	MSP430V203IRGER
MSP430A113IPMR	MSP430F2003IPW	MSP430F2418TPM	MSP430F479IPN	MSP430V204TRGCR
MSP430A114IPMR	MSP430F2003IPWR	MSP430F2418TPMR	MSP430F479IPNR	MSP430V205IRHAR
MSP430A115IPMR	MSP430F2003IRSAR	MSP430F2418TPN	MSP430FE4232IPM	MSP430V207IPZR
MSP430A116IPMR	MSP430F2003IRSAT	MSP430F2418TPNR	MSP430FE4232IPMR	MSP430V208IRGZR
MSP430A117IPMR	MSP430F2003TN	MSP430F2419TPM	MSP430FE423AIPM	MSP430V209TPMR
MSP430A118IPMR	MSP430F2003TPW	MSP430F2419TPMR	MSP430FE423AIPMR	MSP430V210TRGCR
MSP430A119IPMR	MSP430F2003TPWR	MSP430F2419TPN	MSP430FE423IPM	MSP430V211IRHAR
MSP430A120IPMR	MSP430F2003TRSAR	MSP430F2419TPNR	MSP430FE423IPMR	MSP430V212IPWR
MSP430A121IPMR	MSP430F2003TRSAT	MSP430F2471TPM	MSP430FE4242IPM	MSP430V214IPWR
MSP430A122IPMR	MSP430F2011IN	MSP430F2471TPMR	MSP430FE4242IPMR	MSP430V221IPMR
MSP430A123IPMR	MSP430F2011IPW	MSP430F2471TRGC	MSP430FE4252IPM	MSP430V222IPMR
MSP430A124IPMR	MSP430F2011IPWR	MSP430F2471TRGCR	MSP430FE4252IPMR	MSP430V224IPWR
MSP430A125IPZR	MSP430F2011IRSAR	MSP430F2471TRGCT	MSP430FE425AIPM	MSP430V225IPMR
MSP430A126IPMR	MSP430F2011IRSAT	MSP430F247TPM	MSP430FE425AIPMR	MSP430V227IPMR
MSP430A127IPMR	MSP430F2011TN	MSP430F247TPMR	MSP430FE425IPM	MSP430V228IPMR
MSP430A128IPMR	MSP430F2011TPW	MSP430F247TRGC	MSP430FE425IPMR	MSP430V229IRSAR
MSP430A129IPMR	MSP430F2011TPWR	MSP430F247TRGCR	MSP430FE4272IPM	MSP430V230IPMR
MSP430A130IN	MSP430F2011TRSAR	MSP430F247TRGCT	MSP430FE4272IPMR	MSP430V231IPZR
MSP430A130IPW	MSP430F2011TRSAT	MSP430F2481TPM	MSP430FE427AIPM	MSP430V233IPWR
MSP430A130IPWR	MSP430F2012IN	MSP430F2481TPMR	MSP430FE427AIPMR	MSP430V234IPZR
MSP430A130IRSAR	MSP430F2012IPW	MSP430F2481TRGC	MSP430FE427IPM	MSP430V235IPMR
MSP430A130IRSAT	MSP430F2012IPWR	MSP430F2481TRGCR	MSP430FE427IPMR	MSP430V236TPMR
MSP430A130TN	MSP430F2012IRSAR	MSP430F2481TRGCT	MSP430FE4481IPZ	MSP430V237TDAR
MSP430A130TPW	MSP430F2012IRSAT	MSP430F248TPM	MSP430FE4481IPZR	MSP430V239IDWR

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MSP430A130TPWR	MSP430F2012TN	MSP430F248TPMR	MSP430FE4482IPZ	MSP430V240TRHAR
MSP430A130TRSAR	MSP430F2012TPW	MSP430F248TRGC	MSP430FE4482IPZR	MSP430V241IPMR
MSP430A130TRSAT	MSP430F2012TPWR	MSP430F248TRGCR	MSP430FE4491IPZ	MSP430V245IDWR
MSP430A131IPZR	MSP430F2012TRSAR	MSP430F248TRGCT	MSP430FE4491IPZR	MSP430V247IPWR
MSP430A135IPZ	MSP430F2012TRSAT	MSP430F2491TPM	MSP430FE4492IPZ	MSP430V248IPNR
MSP430A136IPZ	MSP430F2013IN	MSP430F2491TPMR	MSP430FE4492IPZR	MSP430V250IPZ
MSP430A136IPZR	MSP430F2013IPW	MSP430F2491TRGC	MSP430FG4250IDL	MSP430V250IPZR
MSP430A137IPZ	MSP430F2013IPWR	MSP430F2491TRGCR	MSP430FG4250IDLR	MSP430V251IDAR
MSP430A137IPZR	MSP430F2013IRSAR	MSP430F2491TRGCT	MSP430FG4250IRGZR	MSP430V253IRSAR
MSP430A138IPNR	MSP430F2013IRSAT	MSP430F2491TRHAR	MSP430FG4250IRGZT	MSP430V254IPZR
MSP430A139IPZR	MSP430F2013TN	MSP430F249TPM	MSP430FG4260IDL	MSP430V255IPWR
MSP430A140IPMR	MSP430F2013TPW	MSP430F249TPMR	MSP430FG4260IDLR	MSP430V256IRSAR
MSP430A141IRSAR	MSP430F2013TPWR	MSP430F249TRGC	MSP430FG4260IRGZR	MSP430V257IPZR
MSP430CG4619IPZ	MSP430F2013TRSAR	MSP430F249TRGCR	MSP430FG4260IRGZT	MSP430V258IRHBR
MSP430CG4619IPZR	MSP430F2013TRSAT	MSP430F249TRGCT	MSP430FG4270IDL	MSP430V259IRGZR
MSP430F1101IDGV	MSP430F2101IDGV	MSP430F2616TPM	MSP430FG4270IDLR	MSP430V260IRHAR
MSP430F1101IDGVR	MSP430F2101IDGVR	MSP430F2616TPMR	MSP430FG4270IRGZR	MSP430V261IRHAR
MSP430F1101IDW	MSP430F2101IDW	MSP430F2616TPN	MSP430FG4270IRGZT	MSP430V262IPMR
MSP430F1101IDWR	MSP430F2101IDWR	MSP430F2616TPNR	MSP430FG437IPN	MSP430V263IPZR
MSP430F1101IPW	MSP430F2101IPW	MSP430F2617TPM	MSP430FG437IPNR	MSP430V265TPMR
MSP430F1101IPWR	MSP430F2101IPWR	MSP430F2617TPMR	MSP430FG438IPN	MSP430V266TPNR
MSP430F1101IRGER	MSP430F2101IRGER	MSP430F2617TPN	MSP430FG438IPNR	MSP430V267IPMR
MSP430F1101IRGET	MSP430F2101IRGET	MSP430F2617TPNR	MSP430FG439IPN	MSP430V268IPMR
MSP430F1111IDGV	MSP430F2101IDGV	MSP430F2618TPM	MSP430FG439IPNR	MSP430V270IPMR
MSP430F1111IDGVR	MSP430F2101IDGVR	MSP430F2618TPMR	MSP430FG4616IPZ	MSP430V271IPMR
MSP430F1111IDW	MSP430F2101IDW	MSP430F2618TPN	MSP430FG4616IPZR	MSP430V272IPNR
MSP430F1111IDWR	MSP430F2101IDWR	MSP430F2618TPNR	MSP430FG4617IPZ	MSP430V274IPMR
MSP430F1111IPW	MSP430F2101TPW	MSP430F2619TPM	MSP430FG4617IPZR	MSP430V276IPMR
MSP430F1111IPWR	MSP430F2101TPWR	MSP430F2619TPMR	MSP430FG4618IPZ	MSP430V277IRSAR
MSP430F1111IRGER	MSP430F2101TRGER	MSP430F2619TPN	MSP430FG4618IPZR	MSP430V278IRSAR
MSP430F1111IRGET	MSP430F2101TRGET	MSP430F2619TPNR	MSP430FG4619IPZ	MSP430V279IPMR
MSP430F1121IDGV	MSP430F2111IDGV	MSP430F412IPM	MSP430FG4619IPZR	SN0309070PMR
MSP430F1121IDGVR	MSP430F2111IDGVR	MSP430F412IPMR	MSP430FG477IPN	SN0807028IPZR
MSP430F1121IDW	MSP430F2111IDW	MSP430F412IRTD	MSP430FG477IPNR	
MSP430F1121IDWR	MSP430F2111IDWR	MSP430F412IRTD	MSP430FG478IPN	
MSP430F1121IPW	MSP430F2111IPW	MSP430F4132IPM	MSP430FG478IPNR	

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信頼性試験

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F1222IDW	-	-	
Assembly Site:	TAI	Package/Code/Pins:	SOIC/DW/28	
Mount Compound:	HITACHI EN-4088Z	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-1 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C, 168, 420hrs	77	77	77
**Autoclave	121C, 96, 168hrs	77	77	77
**T/C	-65C/150C, 250, 500, 1000 Cyc	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-1 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F2132IPWR	-	-	
Assembly Site:	MLA	Package/Code/Pins:	TSSOP/PW/28	
Mount Compound:	HITACHI EN4088Z	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-1 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C, 168, 420hrs	77	77	77
**Autoclave	121C, 96, 168hrs	77	77	77
**T/C	-65C/150C, 250, 500, 1000 Cyc	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-1 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F2274IDA	-	-	
Assembly Site:	TAI	Package/Code/Pins:	TSSOP/DA/38	
Mount Compound:	HITACHI EN-4088Z	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-2 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C, 168, 420hrs	77	77	77
**Autoclave	121C, 96, 168hrs	77	77	77
**T/C	-65C/150C, 250, 500, 1000 Cyc	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-2 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F2370IRHAR	-	-	
Assembly Site:	MLA	Package/Code/Pins:	QFN/RHA/40	
Mount Compound:	ABLESTIK 8290	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-3 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**High Temp. Storage Bake	170C, 168, 420hrs	77	77	77
**Autoclave	121C, 96, 168 hrs	77	77	77
**T/C	-65C/150C, 250, 500, 1000 Cyc	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-3 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F2619TPN	-	-	
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PN/80	
Mount Compound:	HITACHI EN4085S2K3	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-3 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**Steady-state Life Test	150C, 168, 300 Hrs	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-3 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430F47197IPZ	-	-	
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PZ/100	
Mount Compound:	HITACHI EN4085S2K3	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-3 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
Electrical Characterization	-	50	-	-

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430FG4619IPZ	-	-	
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PZ/100	
Mount Compound:	HITACHI EN4085S2K3	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-3 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
**Steady-state Life Test	150C, 168, 300 Hrs	77	-	-
Electrical Characterization	-	50	-	-
**High Temp. Storage Bake	170C, 168, 420hrs	77	77	77
**Autoclave	121C, 96 Hrs	77	77	77
**T/C	-65C/150C, 500, 1000Cyc	77	77	77
Manufacturability	per mfg. Site specification	per spec	-	-
Note: ** Moisture preconditioning required, JEDEC L-3 / 260C				

信頼性試験計画				
信頼性試験期間	開始	2009 年 10 月	終了	2009 年 12 月
信頼性試験 - 試料構成詳細				
Qual Device:	MSP430TEXAS2IPM	-	-	
Assembly Site:	TAI	Package/Code/Pins:	LQFP/PM/64	
Mount Compound:	HITACHI EN4085S2K3	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-3 / 260C	-	-	
信頼性試験計画				
Reliability Test	Condition / Duration	Sample Size		
		Lot#1	Lot#2	Lot#3
Electrical Characterization	-	50	-	-