



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#20091109000B

2011 年 6 月 20 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 (牧)

MSP430 一部製品 Cu(銅)線ボンディングワイア変更のご案内
(認定済 916 製品への追加認定 162 製品の連絡)

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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ご連絡させていただきます。ご査収の程、宜しく願い申し上げます。

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

お客様におかれましては、本通知発行日後、**30** 日以内に通知確認のご連絡をお願いいたします。また、30 日以内にご連絡が無い場合には、本変更をご承認いただいたものと判断させていただきます。変更品評価用サンプルもしくは追加データご入用の場合には、本通知発行日後 30 日以内にご依頼をお願いいたします。

変更品の出荷につきましては、お客様との早期変更実施の個別契約を締結している場合を除いては、本通知発行日より **90** 日以降に予定いたしております。この通知期間は、弊社品質標準に基づいております。

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。

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にお問い合わせ下さい。

以上

変更概要

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	下記変更について認定済 916 製品への追加認定 162 製品の連絡になります。 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	追加認定品は 10 月上旬の出荷より予定しています。 認定終了品は 2 月中旬の出荷より実施しています。 (追加認定品のサンプルは 7 月下旬の出荷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	—			

変更内容

内容：今回のお知らせは、下記変更について認定済916製品への追加認定162製品の連絡になります。弊社 ASP-MCU(マイクロコントローラ) TI-Malaysia(マレーシア)/TI-Taiwan(台湾)/TI-Philippines(フィリピン)サイト製造 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

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				
■: 追加認定品 □: 認定終了品 薄字・右詰: 未認定品				
MSP430A001IPM	MSP430F123IDW	MSP430F2232IRHAR	MSP430F4619IPZR	MSP430G2413IPW20
MSP430A001IPMR	MSP430F123IDWR	MSP430F2232IRHAT	MSP430F47126IPZ	MSP430G2413IPW20R
MSP430A002IPM	MSP430F123IPW	MSP430F2232TDA	MSP430F47126IPZR	MSP430G2413IPW28
MSP430A002IPMR	MSP430F123IPWR	MSP430F2232TDAR	MSP430F47127IPZ	MSP430G2413IPW28R
MSP430A003IPW	MSP430F123IPWR-HYD	MSP430F2232TRHAR	MSP430F47127IPZR	MSP430G2432IPW14
MSP430A003IPWR	MSP430F123IRHBR	MSP430F2232TRHAT	MSP430F47163IPZ	MSP430G2432IPW14R
MSP430A004IPW	MSP430F123IRHBT	MSP430F2234IDA	MSP430F47163IPZR	MSP430G2432IPW20
MSP430A004IPWR	MSP430F133IPAG	MSP430F2234IDAR	MSP430F47166IPZ	MSP430G2432IPW20R
MSP430A005IPW	MSP430F133IPAGR	MSP430F2234IRHAR	MSP430F47166IPZR	MSP430G2433IPW20
MSP430A005IPWR	MSP430F133IPM	MSP430F2234IRHAT	MSP430F47167IPZ	MSP430G2433IPW20R
MSP430A006IPW	MSP430F133IPMR	MSP430F2234TDA	MSP430F47167IPZR	MSP430G2433IPW28
MSP430A006IPWR	MSP430F133IRTDR	MSP430F2234TDAR	MSP430F47173IPZ	MSP430G2433IPW28R
MSP430A006IRTDR	MSP430F133IRTDT	MSP430F2234TRHAR	MSP430F47173IPZR	MSP430G2452IPW14
MSP430A006IRTDT	MSP430F135IPAG	MSP430F2234TRHAT	MSP430F47176IPZ	MSP430G2452IPW14R
MSP430A007IPW	MSP430F135IPAGR	MSP430F2252IDA	MSP430F47176IPZR	MSP430G2452IPW20
MSP430A007IPWR	MSP430F135IPM	MSP430F2252IDAR	MSP430F47177IPZ	MSP430G2452IPW20R

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MSP430A0071RTDR	MSP430F1351PMR	MSP430F22521RHAR	MSP430F471771PZR	MSP430G24531PW20
MSP430A0071RTDT	MSP430F1351RTDR	MSP430F22521RHAT	MSP430F471831PZ	MSP430G24531PW20R
MSP430A0081PN	MSP430F1351RTDT	MSP430F2252TDA	MSP430F471831PZR	MSP430G24531PW28
MSP430A0091PM	MSP430F14711PM	MSP430F2252TDAR	MSP430F471861PZ	MSP430G24531PW28R
MSP430A0091PMR	MSP430F14711PMR	MSP430F2252TRHAR	MSP430F471861PZR	MSP430G25131PW20
MSP430A0101PM	MSP430F14711PMRG4	MSP430F2252TRHAT	MSP430F471871PZ	MSP430G25131PW20R
MSP430A0101PMR	MSP430F14711RTDR	MSP430F2254IDA	MSP430F471871PZR	MSP430G25131PW28
MSP430A0111PMR	MSP430F14711RTDT	MSP430F2254IDAR	MSP430F471931PZ	MSP430G25131PW28R
MSP430A0121DW	MSP430F1471PAG	MSP430F22541RHAR	MSP430F471931PZR	MSP430G25331PW20
MSP430A0121DWR	MSP430F1471PAGR	MSP430F22541RHAT	MSP430F471961PZ	MSP430G25331PW20R
MSP430A0131PM	MSP430F1471PM	MSP430F2254TDA	MSP430F471961PZR	MSP430G25331PW28
MSP430A0131PMR	MSP430F1471PMR	MSP430F2254TDAR	MSP430F471971PZ	MSP430G25331PW28R
MSP430A0141PMR	MSP430F1471PMRG4	MSP430F2254TRHAR	MSP430F471971PZR	MSP430G25531PW20
MSP430A0151PM	MSP430F1471PMR-KAM	MSP430F2254TRHAT	MSP430F4771PN	MSP430G25531PW20R
MSP430A0151PMR	MSP430F1471RTDR	MSP430F2272IDA	MSP430F4771PNR	MSP430G25531PW28
MSP430A0171PN	MSP430F1471RTDT	MSP430F2272IDAR	MSP430F47831PZ	MSP430G25531PW28R
MSP430A0181PN	MSP430F14811PM	MSP430F22721RHAR	MSP430F47831PZR	MSP430T1001PM
MSP430A0211PW	MSP430F14811PMR	MSP430F22721RHAT	MSP430F47841PZ	MSP430T1011PM
MSP430A0211RSAR	MSP430F14811RTDR	MSP430F2272TDA	MSP430F47841PZR	MSP430T1011PMR
MSP430A0231PM	MSP430F14811RTDRG4	MSP430F2272TDAR	MSP430F4781PN	MSP430T1031PM
MSP430A0231PMR	MSP430F14811RTDT	MSP430F2272TRHAR	MSP430F4781PNR	MSP430T1031PMR
MSP430A0241PM	MSP430F1481PAG	MSP430F2272TRHAT	MSP430F47931PZ	MSP430TC07011PZ
MSP430A0241PMR	MSP430F1481PAGR	MSP430F2274IDA	MSP430F47931PZR	MSP430TEXAS21PEG
MSP430A0251PM	MSP430F1481PM	MSP430F2274IDAR	MSP430F47941PZ	MSP430TEXAS21PEGR
MSP430A0251PMR	MSP430F1481PMG4	MSP430F22741RHAR	MSP430F47941PZR	MSP430TEXAS21PM
MSP430A0261PM	MSP430F1481PMR	MSP430F22741RHAT	MSP430F4794SN1PZ	MSP430TEXAS21PMR
MSP430A0261PMR	MSP430F1481RTDR	MSP430F2274TDA	MSP430F4794SN1PZR	MSP430U2271PMR
MSP430A0271PM	MSP430F1481RTDT	MSP430F2274TDAR	MSP430F47961PZ	MSP430U2591DWR
MSP430A0271PMR	MSP430F14911PM	MSP430F2274TRHAR	MSP430F47961PZR	MSP430U2661PMR
MSP430A0281PM	MSP430F14911PMG4	MSP430F2274TRHAT	MSP430F47971PZ	MSP430U2731PWR
MSP430A0281PMR	MSP430F14911PMR	MSP430F23301RHAR	MSP430F47971PZR	MSP430U2761PWR
MSP430A0291PM	MSP430F14911PMRG4	MSP430F23301RHAT	MSP430F4791PN	MSP430U2861PWR
MSP430A0291PMR	MSP430F14911RTDR	MSP430F2330TRHAR	MSP430F4791PNR	MSP430U2871PMR
MSP430A0301PW	MSP430F14911RTDT	MSP430F2330TRHAT	MSP430FE42321PM	MSP430U2881PMR
MSP430A0301PWR	MSP430F14911RTDTG4	MSP430F233TPM	MSP430FE42321PMR	MSP430U2931PWR
MSP430A0301RSAR	MSP430F1491PAG	MSP430F233TPMR	MSP430FE423A1PM	MSP430U2951PMR
MSP430A0301RSAT	MSP430F1491PAGR	MSP430F233TRGC	MSP430FE423A1PMR	MSP430U2991PWR
MSP430A0341PW	MSP430F14911PM	MSP430F233TRGCR	MSP430FE4231PM	MSP430U3001PMR
MSP430A0341PWR	MSP430F14911PMG4	MSP430F233TRGCT	MSP430FE4231PMR	MSP430U3071PM
MSP430A0341RSAR	MSP430F14911PMR	MSP430F23501RHAR	MSP430FE42421PM	MSP430U3091PMR
MSP430A0341RSAT	MSP430F14911PMRG4	MSP430F23501RHAT	MSP430FE42421PMR	MSP430U3101PMR
MSP430A0381RSAR	MSP430F14911PMR-KAM	MSP430F2350TRHAR	MSP430FE42521PM	MSP430U3111PMR
MSP430A0381RSAT	MSP430F14911RTDR	MSP430F2350TRHAT	MSP430FE42521PMR	MSP430U3151PMR
MSP430A0391RHBR	MSP430F14911RTDRG4	MSP430F235TPM	MSP430FE425A1PM	MSP430U3201DWR
MSP430A0391RHBT	MSP430F14911RTDT	MSP430F235TPMR	MSP430FE425A1PMR	MSP430U3211PMR
MSP430A0401RSAR	MSP430F14911RTDTG4	MSP430F235TRGC	MSP430FE4251PM	MSP430U3231PZ
MSP430A0401RSAT	MSP430F1551PM	MSP430F235TRGCR	MSP430FE4251PMR	MSP430U3241PZR
MSP430A0411PM	MSP430F1551PMR	MSP430F235TRGCT	MSP430FE42721PM	MSP430U3281PM
MSP430A0411PMR	MSP430F1551RTDR	MSP430F23701RHA	MSP430FE42721PMR	MSP430U3281PMR
MSP430A0411RTD	MSP430F1551RTDT	MSP430F23701RHAR	MSP430FE427A1PM	MSP430U3291PZ
MSP430A0411RTDR	MSP430F1561PM	MSP430F23701RHAT	MSP430FE427A1PMR	MSP430U3291PZR
MSP430A0421RHAR	MSP430F1561PMR	MSP430F2370TRHA	MSP430FE4271PM	MSP430U3321PMR
MSP430A0421RHAT	MSP430F1561RTDR	MSP430F2370TRHAR	MSP430FE4271PMR	MSP430U3341PZR
MSP430A0431RGER	MSP430F1561RTDT	MSP430F2370TRHAT	MSP430FE44811PZ	MSP430U3351PWR
MSP430A0431RGET	MSP430F1571PM	MSP430F2410TPM	MSP430FE44811PZR	MSP430U3371PW
MSP430A0441PM	MSP430F1571PMR	MSP430F2410TPMR	MSP430FE44821PZ	MSP430U3371PWR

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MSP430A044IPMR	MSP430F157IRTD	MSP430F2410TRGC	MSP430FE4482IPZR	MSP430U338IPMR
MSP430A045IPWR	MSP430F157IRTD	MSP430F2410TRGCR	MSP430FE4491IPZ	MSP430U339IPWR
MSP430A046IPZ	MSP430F1610IPM	MSP430F2410TRGCT	MSP430FE4491IPZR	MSP430U340IPM
MSP430A046IPZR	MSP430F1610IPMR	MSP430F2416TPM	MSP430FE4492IPZ	MSP430U341IPMR
MSP430A047IPZ	MSP430F1610IRTD	MSP430F2416TPMR	MSP430FE4492IPZR	MSP430U343IPWR
MSP430A047IPZR	MSP430F1610IRTD	MSP430F2416TPN	MSP430FG4250IDL	MSP430U344IPWR
MSP430A048IPM	MSP430F1611IPM	MSP430F2416TPNR	MSP430FG4250IDLR	MSP430U345IPMR
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MSP430A051IPM	MSP430F1612IRTD	MSP430F2418TPMR	MSP430FG4260IRGZT	MSP430V103IPMR
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MSP430A052IPW	MSP430F167IPM	MSP430F2418TPNR	MSP430FG4270IDLR	MSP430V106IRTD
MSP430A052IPWR	MSP430F167IPMR	MSP430F2419TPM	MSP430FG4270IRGZR	MSP430V106IRTDG4
MSP430A053IPW	MSP430F167IRTD	MSP430F2419TPMR	MSP430FG4270IRGZT	MSP430V107IPM
MSP430A053IPWR	MSP430F167IRTD	MSP430F2419TPN	MSP430FG437IPN	MSP430V108IDLR
MSP430A054IPN	MSP430F168IPM	MSP430F2419TPNR	MSP430FG437IPNR	MSP430V109IPZ
MSP430A055IPM	MSP430F168IPMR	MSP430F2471TPM	MSP430FG438IPN	MSP430V109IPZR
MSP430A056IPM	MSP430F168IRTD	MSP430F2471TPMR	MSP430FG438IPNR	MSP430V110IPMR
MSP430A057IPMR	MSP430F168IRTD	MSP430F2471TRGC	MSP430FG439IPN	MSP430V111IPM
MSP430A058IRHBR	MSP430F169IPM	MSP430F2471TRGCR	MSP430FG439IPNR	MSP430V111IPMR
MSP430A059IPM	MSP430F169IPMR	MSP430F2471TRGCT	MSP430FG4616IPZ	MSP430V112IRHAR
MSP430A059IPMR	MSP430F169IRTD	MSP430F247TPM	MSP430FG4616IPZR	MSP430V112IRHAT
MSP430A059IRTD	MSP430F169IRTD	MSP430F247TPMR	MSP430FG4617IPZ	MSP430V114IPM
MSP430A059IRTD	MSP430F2001IN	MSP430F247TRGC	MSP430FG4617IPZR	MSP430V115IPNR
MSP430A061IDAR	MSP430F2001IPW	MSP430F247TRGCR	MSP430FG4618IPZ	MSP430V116IDGVR
MSP430A062IPZ	MSP430F2001IPWR	MSP430F247TRGCT	MSP430FG4618IPZR	MSP430V118IPM
MSP430A062IPZR	MSP430F2001IRSAR	MSP430F2481TPM	MSP430FG4619IPZ	MSP430V118IPMR
MSP430A064IPM	MSP430F2001IRSAT	MSP430F2481TPMR	MSP430FG4619IPZR	MSP430V119IRTD
MSP430A065IRBHR	MSP430F2001TN	MSP430F2481TRGC	MSP430FG477IPN	MSP430V120IRTD
MSP430A066IPN	MSP430F2001TPW	MSP430F2481TRGCR	MSP430FG477IPNR	MSP430V121IRHAR
MSP430A066IPNR	MSP430F2001TPWR	MSP430F2481TRGCT	MSP430FG478IPN	MSP430V122IPMR
MSP430A066IPZ	MSP430F2001TRSAR	MSP430F248TPM	MSP430FG478IPNR	MSP430V123IPMR
MSP430A066IPZR	MSP430F2001TRSAT	MSP430F248TPMR	MSP430FG479IPN	MSP430V124IPWR
MSP430A067IRGER	MSP430F2002IN	MSP430F248TRGC	MSP430FG479IPNR	MSP430V125DTPWR
MSP430A068IRHAR	MSP430F2002IPW	MSP430F248TRGCR	MSP430FW423IPM	MSP430V125TPW
MSP430A069IPZ	MSP430F2002IPWR	MSP430F248TRGCT	MSP430FW423IPMR	MSP430V125TPWR
MSP430A076TPMR	MSP430F2002IRSAR	MSP430F2491TPM	MSP430FW425IPM	MSP430V126IRHAR
MSP430A078IN	MSP430F2002IRSAT	MSP430F2491TPMR	MSP430FW425IPMR	MSP430V126IRHARG4
MSP430A078IPW	MSP430F2002TN	MSP430F2491TRGC	MSP430FW427IPM	MSP430V126IRHAT
MSP430A078IPWR	MSP430F2002TPW	MSP430F2491TRGCR	MSP430FW427IPMR	MSP430V127IPMR
MSP430A078IRSAR	MSP430F2002TPWR	MSP430F2491TRGCT	MSP430FW428IPM	MSP430V129IPW
MSP430A078IRSAT	MSP430F2002TRSAR	MSP430F2491TRHAR	MSP430FW428IPMR	MSP430V129IPWR
MSP430A078TN	MSP430F2002TRSAT	MSP430F249TPM	MSP430FW429IPM	MSP430V130IRGZR
MSP430A078TPW	MSP430F2003IN	MSP430F249TPMR	MSP430FW429IPMR	MSP430V131IPAGR
MSP430A078TPWR	MSP430F2003IPW	MSP430F249TRGC	MSP430G2001IPW14	MSP430V132IRHAR
MSP430A078TRSAR	MSP430F2003IPWR	MSP430F249TRGCR	MSP430G2001IPW14R	MSP430V132IRHARG4
MSP430A078TRSAT	MSP430F2003IRSAR	MSP430F249TRGCT	MSP430G2101IPW14	MSP430V133IPWR
MSP430A079IPN	MSP430F2003IRSAT	MSP430F2616TPM	MSP430G2101IPW14R	MSP430V134IPWR
MSP430A079IPNR	MSP430F2003TN	MSP430F2616TPMR	MSP430G2102IPW14	MSP430V135IPN
MSP430A080IPM	MSP430F2003TPW	MSP430F2616TPN	MSP430G2102IPW14R	MSP430V135IPNR
MSP430A080IPMR	MSP430F2003TPWR	MSP430F2616TPNR	MSP430G2102IPW20	MSP430V136IDLR
MSP430A081IPW	MSP430F2003TRSAR	MSP430F2617TPM	MSP430G2102IPW20R	MSP430V137IPAGR
MSP430A081IPWR	MSP430F2003TRSAT	MSP430F2617TPMR	MSP430G2111IPW14	MSP430V138TDA

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MSP430A086IPZ	MSP430F2011IN	MSP430F2617TPN	MSP430G2111IPW14R	MSP430V138TRHAR
MSP430A086IPZR	MSP430F2011IPW	MSP430F2617TPNR	MSP430G2112IPW14	MSP430V138TRHAT
MSP430A088IPWR	MSP430F2011IPWR	MSP430F2618TPM	MSP430G2112IPW14R	MSP430V142IPMR
MSP430A090IPMR	MSP430F2011IRSAR	MSP430F2618TPMR	MSP430G2112IPW20	MSP430V143IPM
MSP430A091IPMR	MSP430F2011IRSAT	MSP430F2618TPN	MSP430G2112IPW20R	MSP430V144IRHBR
MSP430A092IPMR	MSP430F2011TN	MSP430F2618TPNR	MSP430G2113IPW20	MSP430V145IPWR
MSP430A093IPMR	MSP430F2011TPW	MSP430F2619TPM	MSP430G2113IPW20R	MSP430V146IPMR
MSP430A094IPMR	MSP430F2011TPWR	MSP430F2619TPMR	MSP430G2113IPW28	MSP430V147IPWR
MSP430A095IPN	MSP430F2011TRSAR	MSP430F2619TPN	MSP430G2113IPW28R	MSP430V148IN
MSP430A097IPM	MSP430F2011TRSAT	MSP430F2619TPNR	MSP430G2121IPW14	MSP430V151IPMR
MSP430A099IPMR	MSP430F2012IN	MSP430F412IPM	MSP430G2121IPW14R	MSP430V152IDWR
MSP430A100IPMR	MSP430F2012IPW	MSP430F412IPMR	MSP430G2121IRSA16R	MSP430V153IRHA
MSP430A101IPMR	MSP430F2012IPWR	MSP430F412IRTD	MSP430G2121IRSA16T	MSP430V153IRHAR
MSP430A102IPMR	MSP430F2012IRSAR	MSP430F412IRTD	MSP430G2131IPW14	MSP430V155IPNR
MSP430A103IPMR	MSP430F2012IRSAT	MSP430F4132IPM	MSP430G2131IPW14R	MSP430V156IPN
MSP430A104IPMR	MSP430F2012TN	MSP430F4132IPMR	MSP430G2131IRSA16R	MSP430V157IPN
MSP430A105IPMR	MSP430F2012TPW	MSP430F4132IRGZ	MSP430G2131IRSA16T	MSP430V158IPM
MSP430A106IPMR	MSP430F2012TPWR	MSP430F4132IRGZR	MSP430G2132IPW14	MSP430V159IRHAR
MSP430A107IPMR	MSP430F2012TRSAR	MSP430F4132IRGZT	MSP430G2132IPW14R	MSP430V160IPMR
MSP430A108IPMR	MSP430F2012TRSAT	MSP430F413IPM	MSP430G2132IPW20	MSP430V162IPMR
MSP430A108IPN	MSP430F2013IN	MSP430F413IPMR	MSP430G2132IPW20R	MSP430V163IPMR
MSP430A109IPMR	MSP430F2013IPW	MSP430F413IRTD	MSP430G2133IPW20	MSP430V164IRGER
MSP430A110IPMR	MSP430F2013IPWR	MSP430F413IRTD	MSP430G2133IPW20R	MSP430V164IRGERG4
MSP430A111IPMR	MSP430F2013IRSAR	MSP430F413IRTD	MSP430G2133IPW28	MSP430V165IPZR
MSP430A112IPMR	MSP430F2013IRSAT	MSP430F4152IPM	MSP430G2133IPW28R	MSP430V167IDAR
MSP430A113IPMR	MSP430F2013TN	MSP430F4152IPMR	MSP430G2152IPW14	MSP430V168IPNR
MSP430A114IPMR	MSP430F2013TPW	MSP430F4152IRGZ	MSP430G2152IPW14R	MSP430V169IPZ
MSP430A115IPMR	MSP430F2013TPWR	MSP430F4152IRGZR	MSP430G2152IPW20	MSP430V169IPZR
MSP430A116IPMR	MSP430F2013TRSAR	MSP430F4152IRGZT	MSP430G2152IPW20R	MSP430V170IRTD
MSP430A117IPMR	MSP430F2013TRSAT	MSP430F415IPM	MSP430G2153IPW20	MSP430V172TRGCR
MSP430A118IPMR	MSP430F2101DGV	MSP430F415IPMR	MSP430G2153IPW20R	MSP430V174IPM
MSP430A119IPMR	MSP430F2101DGV	MSP430F415IRTD	MSP430G2153IPW28	MSP430V175IPMR
MSP430A120IPMR	MSP430F2101IDW	MSP430F415IRTD	MSP430G2153IPW28R	MSP430V176IDAR
MSP430A121IPMR	MSP430F2101IDWR	MSP430F417IPM	MSP430G2201IPW14	MSP430V178IRGCR
MSP430A122IPMR	MSP430F2101IPW	MSP430F417IPMR	MSP430G2201IPW14R	MSP430V179IPMR
MSP430A123IPMR	MSP430F2101IPWR	MSP430F417IRTD	MSP430G2202IPW14	MSP430V180IPZR
MSP430A124IPMR	MSP430F2101IRGER	MSP430F417IRTD	MSP430G2202IPW14R	MSP430V182IPMR
MSP430A125IPZR	MSP430F2101IRGET	MSP430F4230IDL	MSP430G2202IPW20	MSP430V183IPMR
MSP430A126IPMR	MSP430F2101TDGV	MSP430F4230IDLR	MSP430G2202IPW20R	MSP430V184IRGCR
MSP430A127IPMR	MSP430F2101TDGVR	MSP430F423AIPM	MSP430G2203IPW20	MSP430V185IPWR
MSP430A128IPMR	MSP430F2101TDW	MSP430F423AIPMR	MSP430G2203IPW20R	MSP430V186IPM
MSP430A129IPMR	MSP430F2101TDWR	MSP430F423IPM	MSP430G2203IPW28	MSP430V187IPMR
MSP430A130IN	MSP430F2101TPW	MSP430F423IPMR	MSP430G2203IPW28R	MSP430V191IPZR
MSP430A130IPW	MSP430F2101TPWR	MSP430F423IRTD	MSP430G2211IPW14	MSP430V192IRHAR
MSP430A130IPWR	MSP430F2101TRGER	MSP430F423IRTD	MSP430G2211IPW14R	MSP430V194IPMR
MSP430A130IRSAR	MSP430F2101TRGET	MSP430F4250IDL	MSP430G2212IPW14	MSP430V195IPMR
MSP430A130IRSAT	MSP430F2111DGV	MSP430F4250IDLR	MSP430G2212IPW14R	MSP430V196IPWR
MSP430A130TN	MSP430F2111DGV	MSP430F4250IRGZR	MSP430G2212IPW20	MSP430V197IPMR
MSP430A130TPW	MSP430F2111IDW	MSP430F4250IRGZT	MSP430G2212IPW20R	MSP430V198IPMR
MSP430A130TPWR	MSP430F2111IDWR	MSP430F425AIPM	MSP430G2213IPW20	MSP430V199IDAR
MSP430A130TRSAR	MSP430F2111IPW	MSP430F425AIPMR	MSP430G2213IPW20R	MSP430V200IPMR
MSP430A130TRSAT	MSP430F2111IPWR	MSP430F425IPM	MSP430G2213IPW28	MSP430V201IRGZR
MSP430A131IPZR	MSP430F2111IRGER	MSP430F425IPMR	MSP430G2213IPW28R	MSP430V202IPM
MSP430A135IPZ	MSP430F2111IRGET	MSP430F425IRTD	MSP430G2221IPW14	MSP430V203IRGER
MSP430A136IPZ	MSP430F2111TDGV	MSP430F425IRTD	MSP430G2221IPW14R	MSP430V204TRGCR
MSP430A136IPZR	MSP430F2111TDGVR	MSP430F4260IDL	MSP430G2221IRSA16R	MSP430V205IRHAR

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MSP430A137IPZ	MSP430F2111TDW	MSP430F4260IDL	MSP430G2221RSA16T	MSP430V207IPZR
MSP430A137IPZR	MSP430F2111DWR	MSP430F4260IRGZR	MSP430G2231IPW14	MSP430V208IRGZR
MSP430A138IPNR	MSP430F2111TPW	MSP430F4260IRGZT	MSP430G2231IPW14R	MSP430V209TPMR
MSP430A139IPZR	MSP430F2111TPWR	MSP430F4270IDL	MSP430G2231RSA16R	MSP430V210TRGCR
MSP430A140IPMR	MSP430F2111TRGER	MSP430F4270IDL	MSP430G2231RSA16T	MSP430V211IRHAR
MSP430A141RSAR	MSP430F2111TRGET	MSP430F4270IRGZR	MSP430G2232IPW14	MSP430V212IPWR
MSP430A142IRHAR	MSP430F2112IPW	MSP430F4270IRGZT	MSP430G2232IPW14R	MSP430V214IPWR
MSP430A142IRHAT	MSP430F2112IPWR	MSP430F427AIPM	MSP430G2232IPW20	MSP430V221IPMR
MSP430CG4619IPZ	MSP430F2112IRHBR	MSP430F427AIPMR	MSP430G2232IPW20R	MSP430V222IPMR
MSP430CG4619IPZR	MSP430F2112IRHBT	MSP430F427IPM	MSP430G2233IPW20	MSP430V224IPWR
MSP430F1101AIDGV	MSP430F2112TPW	MSP430F427IPMR	MSP430G2233IPW20R	MSP430V225IPMR
MSP430F1101AIDGVR	MSP430F2112TPWR	MSP430F427IRTD	MSP430G2233IPW28	MSP430V227IPMR
MSP430F1101AIDW	MSP430F2112TRHBR	MSP430F427IRTD	MSP430G2233IPW28R	MSP430V228IPMR
MSP430F1101AIDWR	MSP430F2112TRHBT	MSP430F4351IPN	MSP430G2252IPW14	MSP430V229RSAR
MSP430F1101AIPW	MSP430F2121IDGV	MSP430F4351IPNR	MSP430G2252IPW14R	MSP430V230IPMR
MSP430F1101AIPWR	MSP430F2121IDGVR	MSP430F4351IPZ	MSP430G2252IPW20	MSP430V231IPZR
MSP430F1101AIRGER	MSP430F2121IDW	MSP430F4351IPZR	MSP430G2252IPW20R	MSP430V233IPWR
MSP430F1101AIRGET	MSP430F2121DWR	MSP430F4351IPN	MSP430G2253IPW20	MSP430V234IPZR
MSP430F1111AIDGV	MSP430F2121IPW	MSP430F4351IPNR	MSP430G2253IPW20R	MSP430V235IPMR
MSP430F1111AIDGVR	MSP430F2121IPWR	MSP430F4351IPNR24	MSP430G2253IPW28	MSP430V236TPMR
MSP430F1111AIDW	MSP430F2121IRGER	MSP430F4351IPZ	MSP430G2253IPW28R	MSP430V237TDAR
MSP430F1111AIDWR	MSP430F2121IRGET	MSP430F4351IPZR	MSP430G2302IPW14	MSP430V239DWR
MSP430F1111AIPW	MSP430F2121TDGV	MSP430F4361IPN	MSP430G2302IPW14R	MSP430V240TRHAR
MSP430F1111AIPWR	MSP430F2121TDGVR	MSP430F4361IPNR	MSP430G2302IPW20	MSP430V241IPMR
MSP430F1111AIRGER	MSP430F2121TDW	MSP430F4361IPNRKAM	MSP430G2302IPW20R	MSP430V245DWR
MSP430F1111AIRGET	MSP430F2121TDWR	MSP430F4361IPZ	MSP430G2303IPW20	MSP430V247IPWR
MSP430F1121AIDGV	MSP430F2121TPW	MSP430F4361IPZR	MSP430G2303IPW20R	MSP430V248IPNR
MSP430F1121AIDGVR	MSP430F2121TPWR	MSP430F4361IPN	MSP430G2303IPW28	MSP430V250IPZ
MSP430F1121AIDW	MSP430F2121TRGER	MSP430F4361IPNR	MSP430G2303IPW28R	MSP430V250IPZR
MSP430F1121AIDWR	MSP430F2121TRGET	MSP430F4361IPNR24	MSP430G2312IPW14	MSP430V251IDAR
MSP430F1121AIPW	MSP430F2122IPW	MSP430F4361IPZ	MSP430G2312IPW14R	MSP430V253RSAR
MSP430F1121AIPWR	MSP430F2122IPWR	MSP430F4361IPZR	MSP430G2312IPW20	MSP430V254IPZR
MSP430F1121AIRGE	MSP430F2122IRHBR	MSP430F4371IPN	MSP430G2312IPW20R	MSP430V255IPWR
MSP430F1121AIRGER	MSP430F2122IRHBT	MSP430F4371IPNR	MSP430G2313IPW20	MSP430V256RSAR
MSP430F1121AIRGET	MSP430F2122TPW	MSP430F4371IPZ	MSP430G2313IPW20R	MSP430V257IPZR
MSP430F1122IDW	MSP430F2122TPWR	MSP430F4371IPZR	MSP430G2313IPW28	MSP430V258IRHBR
MSP430F1122IDWR	MSP430F2122TRHBR	MSP430F4371IPN	MSP430G2313IPW28R	MSP430V259IRGZR
MSP430F1122IPW	MSP430F2122TRHBT	MSP430F4371IPNR	MSP430G2332IPW14	MSP430V260IRHAR
MSP430F1122IPWR	MSP430F2131IDGV	MSP430F4371IPZ	MSP430G2332IPW14R	MSP430V261IRHAR
MSP430F1122IRHBR	MSP430F2131IDGVR	MSP430F4371IPZR	MSP430G2332IPW20	MSP430V262IPMR
MSP430F1122IRHBT	MSP430F2131IDW	MSP430F4471IPZ	MSP430G2332IPW20R	MSP430V263IPZR
MSP430F1132IDW	MSP430F2131DWR	MSP430F4471IPZR	MSP430G2333IPW20	MSP430V265TPMR
MSP430F1132IDWR	MSP430F2131IPW	MSP430F4481IPZ	MSP430G2333IPW20R	MSP430V266TPNR
MSP430F1132IPW	MSP430F2131IPWR	MSP430F4481IPZR	MSP430G2333IPW28	MSP430V267IPMR
MSP430F1132IPWR	MSP430F2131IRGER	MSP430F4481IPZ	MSP430G2333IPW28R	MSP430V268IPMR
MSP430F1132IRHBR	MSP430F2131IRGET	MSP430F4481IPZR	MSP430G2352IPW14	MSP430V270IPM
MSP430F1132IRHBT	MSP430F2131TDGV	MSP430F4491IPZ	MSP430G2352IPW14R	MSP430V270IPMR
MSP430F1222IDW	MSP430F2131TDGVR	MSP430F4491IPZR	MSP430G2352IPW20	MSP430V271IPMR
MSP430F1222IDWR	MSP430F2131TDW	MSP430F4491IPZ	MSP430G2352IPW20R	MSP430V272IPNR
MSP430F1222IPW	MSP430F2131TDWR	MSP430F4491IPZR	MSP430G2353IPW20	MSP430V274IPMR
MSP430F1222IPWR	MSP430F2131TPW	MSP430F46161IPZ	MSP430G2353IPW20R	MSP430V276IPMR
MSP430F1222IRHBR	MSP430F2131TPWR	MSP430F46161IPZR	MSP430G2353IPW28	MSP430V277RSAR
MSP430F1222IRHBT	MSP430F2131TRGER	MSP430F46161IPZ	MSP430G2353IPW28R	MSP430V278RSAR
MSP430F122IDW	MSP430F2131TRGET	MSP430F46161IPZR	MSP430G2402IPW14	MSP430V279IPMR
MSP430F122IDWR	MSP430F2132IPW	MSP430F46171IPZ	MSP430G2402IPW14R	MSP430V290IPMR
MSP430F122IPW	MSP430F2132IPWR	MSP430F46171IPZR	MSP430G2402IPW20	MSP430V300IPMR

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MSP430F1221PWR	MSP430F21321RHB	MSP430F46171PZ	MSP430G24021PW20R	MSP430V3101PM
MSP430F1221RHBR	MSP430F21321RHBR	MSP430F46171PZR	MSP430G24031PW20	MSP430V314TPMR
MSP430F1221RHBT	MSP430F21321RHBT	MSP430F46181PZ	MSP430G24031PW20R	MSP430V3151PMR
MSP430F12321DW	MSP430F21321TPW	MSP430F46181PZR	MSP430G24031PW28	SN0309070PMR
MSP430F12321DWR	MSP430F21321TPWR	MSP430F46181PZ	MSP430G24031PW28R	SN08070281PZR
MSP430F12321PW	MSP430F21321TRHBR	MSP430F46181PZR	MSP430G24121PW14	
MSP430F12321PWR	MSP430F21321TRHBT	MSP430F46191PZ	MSP430G24121PW14R	
MSP430F12321RHBR	MSP430F22321DA	MSP430F46191PZR	MSP430G24121PW20	
MSP430F12321RHBT	MSP430F22321DAR	MSP430F46191PZ	MSP430G24121PW20R	

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

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

信頼性試験結果 信頼性試験 - 試料構成詳細			
Qual Device:	MSP430V197IPMR	-	-
Assembly Site:	TI Philippines	Package/Code/Pins:	LQFP/PM/64
Die Attach:	HITACHI EN4085S2K3	Mold Compound:	CL9200HF13-C
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