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西新宿三井ビルディング

報告書番号：PCN#20110608000B
2012 年 1 月 23 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)

SOICパッケージ 一部製品 Cu(銅)線ボンディングワイヤ変更のご案内
(一部部材変更取消及び既報 1035 製品への追加対象 47 製品の連絡)

(初版 PCN20110608000 2011 年 6 月 14 日発行)

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、宜しくお願い申し上げます。

今回のお知らせは、変更実施について通知のみを目的としたものになります。変更の詳細は、次頁以降をご参照下さい。

本通知期間は、弊社品質標準に基づいております。本変更に対するお客様個別のご要求に関しましては、個別契約にて承ります。弊社と合意済みの個別要求につきましては、別途対応させていただきます。担当営業にご確認下さい。

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	下記変更について一部部材変更取消及び既報 1035 製品への追加対象 47 製品の連絡になります。 SOIC パッケージ 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	—			
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、通知のみを目的としたもので、下記変更について一部部材変更取消及び既報1035製品への追加対象47製品の連絡になります。現行チップ接着剤の変更はありません。また、対象製品が47製品追加されました。これらは、初版発行日(2011年6月14日)より本通知発行日までの間、新規にお客様でご購入いただいた製品の追加になります。

SOICパッケージ 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、機械/電气的特性の向上, 同種製品の組立技術推移対応及び供給能力/部材調達利便性向上の為に、これに替わり、Cu(銅)線 ボンディングワイアへ変更します。また、下表の通り、モールド樹脂についても変更します。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

	現行	変更後	
	Au(金)線	Au(金)線	Cu(銅)線
モールド樹脂	4205694	4211880	4211880
チップ接着剤	4147858, 4042500	変更なし	変更なし
ワイヤ径 (Mils)	0.8, 0.9, 0.96, 1.0, 1.15	変更なし	0.96

理由：機械/電气的特性の向上, 同種製品の組立技術推移対応及び供給能力/部材調達利便性向上の為

対象製品リスト

対象製品名				
■: 追加対象品 □: 既報対象品				
AM26C31CD	LM324DG4	SN74HC08D	TL0841D	TLE2161ACD
AM26C31CDR	LM324DR	SN74HC109D	TL0841DR	TLE2161CD
AM26C31CDRG4	LM324DRG4	SN74HC109DR	TL103WA1DR	TLV22411DR
AM26C311D	LM339AD	SN74HC10D	TL103W1DR	TLV22411DRG4
AM26C311DG4	LM339ADR	SN74HC10DR	TL1431CD	TLV22421D
AM26C311DR	LM339ADRG4	SN74HC11DR	TL1431CDG4	TLV22421DR
AM26C311DRG4	LM339D	SN74HC125DR	TL1431CDR	TLV22421DRG4
AM26C32CD	LM339DG4	SN74HC125DRG4	TL1451ACDR	TLV2252A1D
AM26C32CDR	LM339DR	SN74HC132D	TL2842BDR-8	TLV2252A1DR
AM26C32CDRG4	LM339DRG4	SN74HC132DR	TL2843D-8	TLV22521D
AM26C321D	LM348DR	SN74HC139DR	TL2843DR-8	TLV22521DR
AM26C321DR	LM358AD	SN74HC148D	TL2844BDR-8	TLV2262A1DR
AM26C321DRG4	LM358ADE4	SN74HC148DT	TL2845BDR-8	TLV23621DR
AM26LS31CD	LM358ADG4	SN74HC14DR	TL2845DR-8	TLV23711D
AM26LS31CDG4	LM358ADR	SN74HC14DRE4	TL317CD	TLV23721D
AM26LS31CDR	LM358ADRG4	SN74HC151DR	TL317CDR	TLV23721DG4
AM26LS31CDRG4	LM358D-JF	SN74HC153DR	TL3414A1DR	TLV23721DR
AM26LS32ACD	LM358DR	SN74HC153DRG4	TL3472CD	TLV23741D
AM26LS32ACDR	LM358DRG4	SN74HC161DR	TL3472CDR	TLV23741DR
AM26LS32A1D	LM358DR-JF	SN74HC164DR	TL34721D	TLV23741DRG4
AM26LS32A1DR	LM385BD-1-2	SN74HC165D	TL34721DR	TLV24011DR
AM26LV31CD	LM385BD-2-5	SN74HC166DRG4	TL3474A1DR	TLV24021D
AM26LV31CDE4	LM385BDR-2-5	SN74HC32D	TL3474CD	TLV2451CD
AM26LV31CDG4	LM393AD	SN74HC393D	TL34741DR	TLV2451CDRG4
AM26LV31CDR	LM393ADR	SN74HC4020DR	TL3842DR-8	TLV2452CD
AM26LV31CDRG4	LM393ADRG4	SN74HC4040D	TL3843BD-8	TLV2460A1DR
AM26LV311D	LM393D	SN74HC4060DR	TL3843D-8	TLV2460CD
AM26LV311DR	LM393DG4	SN74HC4066D	TL3844DR-8	TLV2460CDR
AM26S10CDR	LM393DR	SN74HC4851DR	TL3845DR-8	TLV2460CDRG4
CD40106BM96	LM393DRG4	SN74HC74D	TL431ACD	TLV2461CD
CD40106BM96G4	LP211DR	SN74HC74DR	TL431ACDR	TLV2461CDR
CD4011BM	LP2902D	SN74HC74DRG4	TL431A1D	TLV2461CDRG4
CD4011BM96	LP2902DR	SN74HC86DR	TL431A1DR	TLV24611DG4
CD4013BM96	LP2951-30D	SN74HCT125D	TL431BCD	TLV24611DR
CD4013BM96G4	LP2951-30DR	SN74HCT125DR	TL431BCDE4	TLV24611DRG4
CD4014BM	LP2951-33DR	SN74HCT138DR	TL431BCDR	TLV2462A1DR
CD4015BM	LP2951-50D	SN74HCT138DRG4	TL431B1D	TLV2462CD
CD4015BM96	LP2951DR	SN74HCT14D	TL431B1DR	TLV2462CDG4
CD40174BM	LP311D	SN74HCT157DR	TL431B1DRG4	TLV2462CDR
CD40175BM	LP311DG4	SN74HCU04D	TL431CD	TLV2462CDRG4
CD4018BM96	LP311DR	SN74HCU04DR	TL431CDG4	TLV24621D
CD4019BM	LT1004CD-1-2	SN74LS00D	TL431CDR	TLV24621DG4
CD4019BM96	LT1004CD-2-5	SN74LS04D	TL431CDRG4	TLV24621DR
CD4027BM	LT1004CDR-1-2	SN74LS04DR	TL4311D	TLV24621DRG4
CD4029BM	LT1004CDR-2-5	SN74LS123D	TL4311DR	TLV2464A1D
CD4030BM96	LT10041D-2-5	SN74LS123DR	TL4311DRG4	TLV2464CD
CD4030BM96G4	LT10041DR-1-2	SN74LS125AD	TL494CD	TLV2464CDR
CD4035BM	LT1009CD	SN74LS125ADR	TL494CDR	TLV24641D
CD4040BM96	LT1009CDR	SN74LS139AD	TL494CDRG4	TLV24641DR
CD4049UBD	LT10091DR	SN74LS145D	TL4941D	TLV2472A1DR
CD4049UBDR	LT1013DD	SN74LS145DR	TL4941DG4	TLV2472CD
CD4050BD	LT1013DDR	SN74LS148D	TL4941DR	TLV24721DG4
CD4051BM	LT1013D1D	SN74LS14D	TL4941DRG4	TLV24721DR

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CD4051BM96	LT1013D1DR	SN74LS14DR	TL497ACDR	TLV27021D
CD4051BM96G4	MAX202CD	SN74LS151D	TL497A1D	TLV27021DG4
CD4052BM	MAX202CDR	SN74LS165ADR	TL497A1DR	TLV271CDRG4
CD4052BM96	MAX2021D	SN74LS175D	TL5001ACD	TLV272CD
CD4052BM96G4	MAX2021DR	SN74LS247DR	TL5001ACDR	TLV272CDG4
CD4053BM	MAX232D	SN74LS279ADR	TL5001CD	TLV272CDR
CD4053BM96	MAX232DR	SN74LS348D	TL5001CDG4	TLV272CDRG4
CD4053BM96G4	MAX232DRG4	SN74LS368AD	TL5001CDR	TLV2721D
CD4053BMG4	MAX232E1D	SN74LS368ADR	TL50011DR	TLV2721DR
CD4060BM	MAX232E1DR	SN74LS47D	TL5002CD	TLV274CD
CD4066BM	MAX3232CD	SN74LV00ADR	TL5002CDR	TLV274CDR
CD4066BM96	MAX3232CDG4	SN74LV05ADR	TL5209DR	TLV2741D
CD4066BM96G4	MAX3232CDR	SN74LV132AD	TL592B-8DR	TLV2741DR
CD4069UBM96	MAX3232CDRG4	SN74LV14AD	TL594CD	TLV27L21D
CD4098BM	MAX32321D	SN74LVC07ADR	TL594CDR	TLV27L21DR
CD4518BM	MAX32321DR	SN74LVC07ADRG4	TL594CDRG4	TLV3401CD
CD4543BM	MAX32321DRE4	SN74LVC14AD	TL5941D	TLV34011D
CD4555BM	MAX32321DRG4	SN74LVC14ADR	TL5941DR	TLV34011DR
CD74HCOOM	MC1458D	SN74LVC14ADRG4	TL598CD	TLV3402CDR
CD74HCOOM96	MC1458DR	SN74LVU04ADR	TL598CDR	TLV34021D
CD74HC04M	MC33063AD	SN74S1051DR	TL712CD	TLV41111D
CD74HC04M96	MC33063ADR	SN75157D	TL712CDR	TPA301D
CD74HC112M96	MC33078DR	SN75158D	TL714CD	TPA301DR
CD74HC123M	MC3403DR	SN75158DR	TL714CDR	TPA4861D
CD74HC123M96	MC34063AD	SN751730D	TL714CDRE4	TPA4861DG4
CD74HC123M96G4	MC3486D	SN75173D	TL7660CD	TPA4861DR
CD74HC123MG4	MC3486DR	SN75173DR	TL7660CDR	TPA701DR
CD74HC139M96	MC3487D	SN75175D	TL7702ACD	TPA711D
CD74HC147M	NE5532AD	SN75175DR	TL7702ACDR	TPA711DR
CD74HC14M	NE5532ADR	SN75176BD	TL7702A1D	TPA741D
CD74HC14M96	NE5532D	SN75176BDG4	TL7702BCD	TPS2101D
CD74HC151M	NE5532DG4	SN75176BDR	TL7702BCDR	TPS2837D
CD74HC157M96	NE5532DR	SN75176BDRG4	TL7702B1D	TPS2837DR
CD74HC161M	NE5532DRG4	SN75179BD	TL7705ACD	TPS3305-18D
CD74HC165M	NE5534AD	SN75179BDR	TL7705ACDR	TPS3305-18DG4
CD74HC166M	NE5534ADR	SN75179BDRG4	TL7705A1D	TPS3305-18DR
CD74HC175M	NE5534D	SN75188D	TL7705A1DR	TPS3305-25D
CD74HC194M	NE555D	SN75188DR	TL7705BCD	TPS3305-25DR
CD74HC194M96	NE555DG4	SN75189AD	TL7705BCDR	TPS3305-33D
CD74HC221M	NE555DR	SN75189ADR	TL7709ACD	TPS3305-33DR
CD74HC221M96	NE555DRG4	SN75189D	TL7712ACD	TPS3306-15D
CD74HC238M	OP07CD	SN75189DR	TL7712ACDR	TPS3306-25DR
CD74HC238M96	OP07CDR	SN75372D	TL7733BCD	TPS3306-33D
CD74HC32M	OP07DD	SN75372DG4	TL7733BCDG4	TPS3307-18D
CD74HC32M96	OP07DDR	SN75451BD	TL7733BCDR	TPS3307-18DG4
CD74HC367M	P82B715DR	SN75451BDR	TL7733B1D	TPS3307-18DR
CD74HC390M96G4	P82B96D	SN75452BD	TL7733B1DRE4	TPS3307-25D
CD74HC40103M96	P82B96DR	SN75452BDE4	TL7759CD	TPS3307-25DG4
CD74HC40105M96	P82B96DRG4	SN75452BDR	TLC070A1DR	TPS3307-25DR
CD74HC40105MT	PCA9515AD	SN75453BDR	TLC0711DR	TPS3307-25DRG4
CD74HC4046AM	PCA9515ADR	SN75453BDRG4	TLC072A1D	TPS3307-33D
CD74HC4046AM96	PCA9517D	SN75468D	TLC072A1DR	TPS3307-33DG4
CD74HC4049M96	PCA9517DR	SN75ALS176BD	TLC072CD	TPS3307-33DR
CD74HC4050M	RC4558D	SN75ALS176BDR	TLC072CDR	TPS3510DR
CD74HC4051M	RC45581D	SN75ALS176D	TLC0721DR	TPS3513D
CD74HC4051M96	RC45581DR	SN75ALS180D	TLC074CDR	TPS3513DR

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CD74HC4051M96G4	RC45601DR	SN75ALS191D	TLC081A1D	TPS3705-30D
CD74HC4051MG4	RC45801D	SN75ALS192D	TLC081A1DG4	TPS3705-30DR
CD74HC4052M96	RC45801DR	SN75ALS192DR	TLC081A1DR	TPS3705-33D
CD74HC4053M	SA5532AD	SN75ALS193D	TLC081CD	TPS3705-33DR
CD74HC4053M96	SA5532ADR	SN75ALS193DR	TLC0811DR	TPS3705-50D
CD74HC4053MG4	SA5532DR	SN75C1406DR	TLC082A1DR	TPS3705-50DR
CD74HC4060M	SA555D	SN75C189ADR	TLC082A1DRG4	TPS3707-30D
CD74HC4094M96	SA555DG4	SN75HVD07D	TLC082CD	TPS3707-30DR
CD74HC423M	SA555DR	SN75HVD3082ED	TLC082CDG4	TPS3707-33D
CD74HC423M96	SA555DRG4	SN75HVD3082EDG4	TLC082CDR	TPS3707-33DR
CD74HC423M96G4	SG2524DR	SN75HVD3082EDR	TLC082CDRG4	TPS3707-50D
CD74HC4316M96	SG2524DRG4	SN75LBC173AD	TLC0821DRG4	TPS76501D
CD74HC4511M	SN65176BD	SN75LBC173ADG4	TLC084A1D	TPS76501DR
CD74HC4538M	SN65176BDE4	SN75LBC173ADR	TLC084CDR	TPS76518D
CD74HC4538M96	SN65176BDG4	SN75LBC173ADRG4	TLC0841DR	TPS76601D
CD74HC597M	SN65176BDR	SN75LBC175AD	TLC0841DRG4	TPS76618D
CD74HC597M96	SN65176BDRG4	SN75LBC175ADR	TLC2252A1D	TPS76618DR
CD74HC670M	SN65ALS1176D	SN75LBC176AD	TLC2252CD	TPS76618DRG4
CD74HC7046AM	SN65ALS1176DR	SN75LBC176ADG4	TLC2252CDR	TPS76633D
CD74HC7046AM96	SN65ALS176DR	SN75LBC176ADR	TLC2252CDRG4	TPS76633DG4
CD74HC75M96	SN65ALS180D	SN75LBC179AD	TLC22521DR	TPS76633DR
CD74HC86M	SN65ALS180DR	SN75LBC179ADG4	TLC2262A1D	TPS76715QD
CD74HCT123M	SN65ELT20D	SN75LBC179ADR	TLC2262A1DR	TPS76715QDG4
CD74HCT123M96	SN65ELT21D	SN75LBC180AD	TLC2262CD	TPS76715QDR
CD74HCT125M	SN65EPT22D	SN75LBC180ADR	TLC2262CDG4	TPS76718QD
CD74HCT125M96	SN65EPT22DR	SN75LBC180ADRG4	TLC2262CDR	TPS76718QDR
CD74HCT126M	SN65EPT23D	THS45211D	TLC2262CDRG4	TPS76718QDRG4
CD74HCT132M	SN65EPT23DR	THS45211DR	TLC22621DR	TPS76725QD
CD74HCT132M96	SN65HVD230D	THS7314D	TLC2264A1D	TPS76725QDG4
CD74HCT138M96	SN65HVD230DR	THS7314DR	TLC2264A1DR	TPS76725QDR
CD74HCT14M	SN65HVD231D	THS7316D	TLC2264CD	TPS76733QD
CD74HCT14M96	SN65HVD231DR	THS7316DR	TLC2264CDR	TPS76733QDR
CD74HCT151M	SN65HVD232D	TL026CD	TLC22641D	TPS76733QDRG4
CD74HCT153M	SN65HVD232DR	TL026CDR	TLC22641DR	TPS76801QD
CD74HCT153M96	SN65HVD233D	TL031CDR	TLC2272ACD	TPS76815QD
CD74HCT161M	SN65HVD233DG4	TL032ACD	TLC2272ACDG4	TPS76815QDR
CD74HCT161M96	SN65HVD233DR	TL032CD	TLC2272ACDR	TPS76818QD
CD74HCT221M	SN65HVD233DRG4	TL032CDR	TLC2272A1D	TPS76833QDR
CD74HCT238M96	SN65HVD234D	TL0321D	TLC2272A1DR	TPS76833QDRG4
CD74HCT259M	SN65HVD234DG4	TL0321DR	TLC2272CD	TPS76850QD
CD74HCT367M	SN65HVD234DR	TL051ACD	TLC2272CDG4	TPS76850QDR
CD74HCT40105MG4	SN65HVD235D	TL051CD	TLC2272CDR	TPS76850QDRG4
CD74HCT4020M	SN65HVD3082ED	TL051CDR	TLC2272CDRG4	TPS77515D
CD74HCT4046AM	SN65HVD3082EDR	TL052ACD	TLC22721D	TPS77516D
CD74HCT4051M	SN65HVD3085ED	TL052ACDR	TLC22721DR	TPS77518D
CD74HCT4051M96	SN65HVD3085EDR	TL052A1D	TLC2274ACD	TPS77533D
CD74HCT4051M96G4	SN65HVD3085EDRG4	TL052A1DR	TLC2274ACDR	TPS77533DR
CD74HCT4052M	SN65HVD3088ED	TL052CD	TLC2274ACDRG4	TPS77601D
CD74HCT4052M96	SN65HVD3088EDG4	TL052CDR	TLC2274A1D	TPS77601DG4
CD74HCT4053M	SN65HVD3088EDR	TL0521DR	TLC2274A1DG4	TPS77601DR
CD74HCT4053M96	SN65HVD3088EDRG4	TL054ACD	TLC2274A1DR	TPS77615DR
CD74HCT4316M96	SN65HVD485ED	TL054A1DR	TLC2274CD	TPS77618D
CD74HCT4316MT	SN65HVD485EDR	TL054CDR	TLC2274CDG4	TPS77625D
CD74HCT4538M	SN65HVD485EDRG4	TL0541D	TLC2274CDR	TPS77633DR
CD74HCT74M	SN65LBC173AD	TL061ACD	TLC2274CDRG4	TPS77718D
HPA00094DR	SN65LBC173ADR	TL061ACDR	TLC22741D	TPS77725D

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LF347D	SN65LBC175AD	TL061CD	TLC22741DR	TPS77733D
LF347DR	SN65LBC176AD	TL061CDR	TLC22741DRG4	TPS77733DR
LF353D	SN65LBC176ADR	TL0611DR	TLE2021CD	TPS77801D
LF353DR	SN65LBC176ADRG4	TL062ACD	TLE2021CDR	TPS77815D
LF412CD	SN65LBC179AD	TL062ACDR	TLE20211DR	TPS77825D
LF412CDR	SN65LBC179ADR	TL062BCDR	TLE2022ACD	TPS77833D
LM211DR	SN65LBC180AD	TL062CD	TLE2022ACDR	TRS2021DR
LM211DRG4	SN65LBC180ADR	TL062CDR	TLE2022A1DR	TRS232D
LM224AD	SN65LBC180ADRG4	TL062CDRE4	TLE2022CD	TRS232ECD
LM224ADR	SN65LVELT22D	TL0621D	TLE2022CDR	TS12A44513DR
LM224DR	SN65LVELT22DR	TL0621DR	TLE2022CDRG4	TS12A44514DR
LM224DRG4	SN65LVELT23D	TL064CDR	TLE20221D	TS12A4514D
LM239ADR	SN65LVELT23DR	TL0641D	TLE20221DR	TS12A4514DR
LM239ADRE4	SN7406D	TL071ACD	TLE2027CD	UA741CDR
LM239DR	SN7406DR	TL071ACDR	TLE20371D	UA78L02ACDG4
LM258ADR	SN7406DRG4	TL071CD	TLE20371DR	UA78L05ACD
LM258D	SN7407DR	TL071CDR	TLE2061ACD	UA78L05ACDG4
LM258DR	SN74AHC08D	TL0711DR	TLE2061CD	UA78L05ACDR
LM285D-1-2	SN74AHC08DR	TL072ACD	TLE2061CDR	UA78L05ACDRG4
LM285D-2-5	SN74AHC132DR	TL072ACDR	TLE2062ACD	UA78L05A1D
LM285DR-1-2	SN74AHC138D	TL072BCDR	TLE2062ACDR	UA78L15ACDR
LM285DR-2-5	SN74AHC138DR	TL072CD	TLE2062A1D	UCC27321D
LM2901D	SN74AHC14D	TL072CDR	TLE2062CD	UCC27321DR
LM2901DR	SN74AHC14DR	TL0721D	TLE2062CDG4	UCC27322D
LM2901DRG4	SN74AHC32D	TL0721DR	TLE2062CDR	UCC27323D
LM2902D	SN74AHC367DR	TL074ACD	TLE2062CDRG4	UCC27323DR
LM2902DG4	SN74AHCT04DR	TL074ACDR	TLE20621D	UCC27324D
LM2902DR	SN74AHCT08DR	TL074ACDRG4	TLE2071CD	UCC27324DR
LM2902DRG4	SN74AHCT123AD	TL074CD	TLE20711D	UCC27324DRG4
LM2903D	SN74AHCT138D	TL074CDR	TLE20711DR	UCC27325D
LM2903DG4	SN74AHCT14DR	TL074CDRE4	TLE2072ACD	UCC27423D
LM2903DR	SN74AHCT594DR	TL074CDRG4	TLE2072CD	UCC27423DR
LM2903DRG4	SN74AHC04D	TL0741D	TLE2072CDG4	UCC27424D
LM2904D-JF	SN74ALS04BD	TL0741DR	TLE2072CDR	UCC27424DR
LM2904DR	SN74ALS08DR	TL081ACD	TLE20721D	UCC37321D
LM2904DRG4	SN74ALS157AD	TL081ACDR	TLE2081ACD	UCC37321DR
LM2904DR-JF	SN74ALS169BD	TL081CD	TLE2081CD	UCC37322D
LM293AD	SN74ALS169BDR	TL0811DR	TLE2082ACD	UCC37323D
LM293ADR	SN74F109D	TL082ACD	TLE2082ACDR	UCC37324D
LM293D	SN74F109DR	TL082ACDR	TLE2082CD	UCC37324DR
LM293DR	SN74F163AD	TL082ACDRG4	TLE20821D	ULN2003AD
LM293DRG4	SN74F175DR	TL082BCD	TLE2141CDR	ULN2003ADG4
LM311DR	SN74F32DR	TL082BCDR	TLE21411D	ULN2003ADR
LM311DRG4	SN74F74DR	TL082CD	TLE21411DR	ULN2003ADRE4
LM317LCD	SN74HC00D	TL082CDR	TLE2142ACD	ULN2003ADRG4
LM317LCDR	SN74HC00DR	TL0821D	TLE2142ACDR	ULN2003A1DR
LM317L1DR	SN74HC00DRG4	TL0821DR	TLE2142A1D	ULN2004AD
LM318D	SN74HC02D	TL084ACD	TLE2142A1DR	ULN2004ADR
LM324AD	SN74HC03D	TL084ACDR	TLE2142CD	ULN2004ADRG4
LM324ADR	SN74HC04D	TL084CD	TLE2142CDR	
LM324ADRG4	SN74HC04DR	TL084CDR	TLE21421D	
LM324D	SN74HC05DR	TL084CDRG4	TLE21421DR	

日本テキサス・インスツルメンツ株式会社

信頼性試験

信頼性試験計画

信頼性試験期間	開始	2011 年 5 月	終了	2012 年 5 月
信頼性試験 - 試料構成詳細				
Qual Device:	MAX232DR	-	-	
Assembly Site:	TI Malaysia	Package/Code/Pins:	SOIC/D/16	
Mount Compound:	4042500	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Lead frame (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
Steady-state Life Test	150C, 168, 300 hrs	77	77	77
Electrical Characterization	-	30	-	-
**High Temp. Storage Bake	170C, 420hrs	77	77	77
**Biased HAST	130C/85%RH, 96 Hrs	77	77	77
**Autoclave	121C, 96 Hrs	77	77	77
**T/C	-65C/150C, 500, 1000 Cyc	77	77	77
Visual / Mechanical	-	328	328	328
Lead Pull	# of leads to destruction, min. 3 units	22	22	22
Flammability	Method A - UL94-0	5	5	5
Flammability	Method B - IEC 695-2-2	5	5	5
Flammability	Method C - UL 1694	5	5	5
Bond Strength	76 ball bonds, min. 3 units	76	76	76
Die Shear	-	10	10	10
Manufacturability	per mfg. Site specification	per spec	per spec	per spec
**Thermal Shock	-65C/150C, 500, 1000 Cyc	77	77	77
X-ray	top side only	5	5	5
Moisture Sensitivity	JEDEC L-1/260C	12	12	12
Notes: ** Preconditioning sequence: JEDEC L-1/260C				

信頼性試験計画

信頼性試験期間	開始	2011 年 5 月	終了	2012 年 5 月
信頼性試験 - 試料構成詳細				
Qual Device:	RC4558DR	-	-	
Assembly Site:	TI Malaysia	Package/Code/Pins:	SOIC/D/8	
Mount Compound:	4042500	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Lead frame (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
Steady-state Life Test	150C, 168, 300 hrs	77	-	-
Electrical Characterization	-	30	-	-
**High Temp. Storage Bake	170C, 420hrs	77	-	-
**Biased HAST	130C/85%RH, 96 Hrs	77	-	-
**Autoclave	121C, 96 Hrs	77	-	-
**T/C	-65C/150C, 500, 1000 Cyc	77	77	77
Visual / Mechanical	-	328	-	-
Lead Pull	# of leads to destruction, min. 3 units	22	-	-
Flammability	Method A - UL94-0	5	-	-
Flammability	Method B - IEC 695-2-2	5	-	-
Flammability	Method C - UL 1694	5	-	-
Bond Strength	76 ball bonds, min. 3 units	76	-	-
Die Shear	-	10	-	-
Manufacturability	per mfg. Site specification	per spec	-	-
**Thermal Shock	-65C/150C, 500, 1000 Cyc	77	77	77
X-ray	top side only	5	-	-
Moisture Sensitivity	JEDEC L-1/260C	12	12	12
Notes: ** Preconditioning sequence: JEDEC L-1/260C				

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信頼性試験計画				
信頼性試験期間	開始	2011 年 5 月	終了	2012 年 5 月
信頼性試験 - 試料構成詳細				
Qual Device:	SN74LV14ADR	-	-	
Assembly Site:	TI Malaysia	Package/Code/Pins:	SOIC/D/14	
Mount Compound:	4042500	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Lead frame (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
Steady-state Life Test	150C, 168, 300 hrs	77	-	-
Electrical Characterization	-	30	-	-
**High Temp. Storage Bake	170C, 420hrs	77	-	-
**Biased HAST	130C/85%RH, 96 Hrs	77	-	-
**Autoclave	121C, 96 Hrs	77	-	-
**T/C	-65C/150C, 500, 1000 Cyc	77	77	77
Visual / Mechanical	-	328	-	-
Lead Pull	# of leads to destruction, min. 3 units	22	-	-
Flammability	Method A - UL94-0	5	-	-
Flammability	Method B - IEC 695-2-2	5	-	-
Flammability	Method C - UL 1694	5	-	-
Bond Strength	76 ball bonds, min. 3 units	76	-	-
Die Shear	-	10	-	-
Manufacturability	per mfg. Site specification	per spec	-	-
**Thermal Shock	-65C/150C, 500, 1000 Cyc	77	77	77
X-ray	top side only	5	-	-
Moisture Sensitivity	JEDEC L-1/260C	12	12	12
Notes: ** Preconditioning sequence: JEDEC L-1/260C				

信頼性試験計画				
信頼性試験期間	開始	2011 年 5 月	終了	2012 年 5 月
信頼性試験 - 試料構成詳細				
Qual Device:	ULN2003ADR	-	-	
Assembly Site:	TI Malaysia	Package/Code/Pins:	SOIC/D/16	
Mount Compound:	4042500	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Lead frame (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
Steady-state Life Test	150C, 168, 300 hrs	77	-	-
Electrical Characterization	-	30	-	-
**High Temp. Storage Bake	170C, 420hrs	77	-	-
**Biased HAST	130C/85%RH, 96 Hrs	77	-	-
**Autoclave	121C, 96 Hrs	77	-	-
**T/C	-65C/150C, 500, 1000 Cyc	77	-	-
Visual / Mechanical	-	328	-	-
Lead Pull	# of leads to destruction, min. 3 units	22	-	-
Bond Strength	76 ball bonds, min. 3 units	76	-	-
Die Shear	-	10	-	-
Manufacturability	per mfg. Site specification	per spec	-	-
**Thermal Shock	-65C/150C, 500, 1000 Cyc	77	-	-
X-ray	top side only	5	-	-
Notes: ** Preconditioning sequence: JEDEC L-1/260C				

信頼性試験結果			
信頼性試験 - 試料構成詳細			
Qual Device:	CD4053BM96	-	-
Assembly Site:	TI Mexico	Package/Code/Pins:	SOIC/D/16
Mount Compound:	4147858	Mold Compound:	4211880
Bond Wire:	0.96 Mil Dia., Cu	Leadframe (Finish, Base):	NiPdAu, Cu
MSL:	JEDEC L-1/260C	-	-
信頼性試験結果			
Reliability Test	Condition / Duration		Sample Size/ Fails
**Steady-state Life Test	150C, 300 Hrs		77/0
Electrical Characterization	-		Approved
**High Temp. Storage Bake	170C, 600 Hrs		77/0
**Biased HAST	130C/85%RH, 192 Hrs		77/0
**Autoclave	121C, 96 hrs		77/0
**T/C	-65C/150C, 500 Cyc		77/0
Visual / Mechanical	-		Approved
Lead Pull	# of leads to destruction, min. 3 units		22/0
Bond Strength	76 ball bonds, min. 3 units		76/0
Manufacturability	per mfg. Site specification		Approved
**Thermal Shock	-65C/150C, 500 Cyc		77/0
X-ray	top side only		5/0
Moisture Sensitivity	JEDEC L-1/260C		12/0
Notes: ** Preconditioning Sequence: JEDEC L-1/260C			

信頼性試験結果 信頼性試験 - 試料構成詳細				
Qual Device:	LM358DR	-	-	
Assembly Site:	TI Mexico	Package/Code/Pins:	SOIC/D/8	
Mount Compound:	4147858	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-1/260C	-	-	
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C, 168, 300 hrs	77/0	-	-
Electrical Characterization	-	Approved	-	-
**High Temp. Storage Bake	170C, 420hrs	77/0	-	-
**Biased HAST	130C/85%RH, 192 Hrs	77/0	-	-
**Autoclave	121C, 96 hrs	77/0	-	-
**T/C	-65C/150C, 500 Cyc	77/0	77/0	77/0
Visual / Mechanical	-	Approved	-	-
Lead Pull	-	22/0	-	-
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Manufacturability	per mfg. Site specification	Approved	-	-
**Thermal Shock	-65C/150C, 500 Cyc	77/0	77/0	77/0
X-ray	top side only	5/0	-	-
Moisture Sensitivity	JEDEC L-1/260C	12/0	12/0	12/0
Notes: ** Preconditioning Sequence: JEDEC L-1/260C				

信頼性試験結果 信頼性試験 - 試料構成詳細				
Qual Device:	TL494IDR	-	-	
Assembly Site:	TI Mexico	Package/Code/Pins:	SOIC/D/16	
Mount Compound:	4147858	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-1/260C	-	-	
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot#1	Lot#2	Lot#3
Steady-state Life Test	150C, 168, 300 hrs	77/0	77/0	77/0
Electrical Characterization	-	Approved	-	-
**High Temp. Storage Bake	170C, 600hrs	77/0	77/0	77/0
**Biased HAST	130C/85%RH, 192 Hrs	77/0	77/0	77/0
**Autoclave	121C, 96 hrs	77/0	77/0	77/0
**T/C	-65C/150C, 500 Cyc	77/0	77/0	77/0
Visual / Mechanical	-	Approved	Approved	Approved
Lead Pull	-	22/0	22/0	22/0
Flammability	Method A - UL94-0	5/0	5/0	5/0
Flammability	Method B - IEC 695-2-2	5/0	5/0	5/0
Flammability	Method C - UL 1694	5/0	5/0	5/0
Bond Strength	76 ball bonds, min. 3 units	76/0	76/0	76/0
Manufacturability	per mfg. Site specification	Approved	Approved	Approved
**Thermal Shock	-65C/150C, 500 Cyc	77/0	77/0	77/0
X-ray	top side only	5/0	5/0	5/0
Moisture Sensitivity	JEDEC L-1/260C	12/0	12/0	12/0
Notes: ** Preconditioning Sequence: JEDEC L-1/260C				

信頼性試験結果 信頼性試験 - 試料構成詳細				
Qual Device:	ULN2003ADR	-	-	
Assembly Site:	TI Mexico	Package/Code/Pins:	SOIC/D/16	
Mount Compound:	4147858	Mold Compound:	4211880	
Bond Wire:	0.96 Mil Dia., Cu	Leadframe (Finish, Base):	NiPdAu, Cu	
MSL:	JEDEC L-1/260C	-	-	
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot#1	Lot#2	Lot#3
**Steady-state Life Test	150C, 300 Hrs	77/0	-	-
Electrical Characterization	-	Approved	-	-
**High Temp. Storage Bake	170C, 600 Hrs	77/0	77/0	77/0
**Biased HAST	130C/85%RH, 192 Hrs	77/0	-	-
**Autoclave	121C, 96 hrs	77/0	77/0	77/0
**T/C	-65C/150C, 500 Cyc	77/0	77/0	77/0
Visual / Mechanical	-	Approved	-	-
Lead Pull	-	22/0	22/0	22/0
Bond Strength	76 ball bonds, min. 3 units	76/0	-	-
Manufacturability	per mfg. Site specification	Approved	-	-
**Thermal Shock	-65C/150C, 500 Cyc	77/0	77/0	77/0
X-ray	top side only	5/0	5/0	5/0
Moisture Sensitivity	JEDEC L-1/260C	12/0	12/0	12/0
Notes: ** Preconditioning Sequence: JEDEC L-1/260C				