



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#20070216000B

2008 年 9 月 19 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 ビジネスオペレーションズ部
カスタマドキュメント マネージャ 牧 達郎 

uBGAパッケージ製品 Green化モールドコンパウンド追加のご案内
(認定 1230 製品からの対象除外 259 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	下記変更について認定 1230製品からの対象除外 259製品の連絡になります。 uBGAパッケージ製品 Green化モールドコンパウンド追加 現行 : ShinEtsu社 KMC284B (Green 対応) Hitachi社 CEL9200NT (Green 未対応) 変更後 : ShinEtsu社 KMC284B (Green 対応) KCC社 (韓国) KTCM5800GL (Green 対応)			
対象製品	対象製品リスト参照			
変更時期	9 月下旬の出荷より実施します。			
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、既報のPCN(変更通知)で誤って記載していた製品が多数ありその変更対象製品の除外の連絡になります。認定 1230製品からの対象除外 259製品の連絡になります。更に今回のお知らせでは、認定試験の詳細内容についても記載いたしました。

また、注記といたしましてこの変更についてのお知らせは標準の変更導入期間を既に経過した後の対象製品の除外の連絡になる為に、対象除外となっていない製品については変更実施を開始するものがあります。

弊社 uBGAパッケージ製造サイト使用のモールドコンパウンドについて、現行 ShinEtsu 社 KMC284B (Green 対応)、Hitachi 社 CEL9200NT (Green 未対応)を適用し製造しております。今回、環境影響軽減の一環として進めておりますGreen化のモールドコンパウンド部材として、現行の ShinEtsu 社 KMC284Bを維持し、Hitachi 社 CEL9200NTに替わり、KCC (Korea Chemical Co.) 社 KTMC5800GL (Green 対応)を追加し認定しました。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

モールド
コンパウンド

ShinEtsu 社 KMC284B (Green 対応)
Hitachi 社 CEL9200NT (Green 未対応)

ShinEtsu 社 KMC284B (Green 対応)
KCC 社 KTMC5800GL (Green 対応)

理由：環境影響軽減及び製品供給能力(2ndソース モールド供給業者)の確保の為

対象製品リスト

対象製品名				
□:認定終了品 取消線(右括め):対象除外品 薄地:認定作業中				
1510GZZG2	D761522AYZPHR	SN0308037ZHK	TMS320F2806ZGMS	TNETV1600INGZG
1510GZZG2R	D761522ZPHR	SN0401032GGW	TMS320F2808GGMA	TNETV1600IPGZG
1610F1ZZG	D761522ZPHRB	SN0401032ZGW	TMS320F2808GGMS	TNETV1600NNGZG
1610F1ZZGR	D7617121SZZGR	SN0401043BGGHC	TMS320F2808ZGMA	TNETV1600NPGZG
1611BZZG	D761712ZZGR	SN0401043BZHC	TMS320F2808ZGMS	TNETV17001NZG
1611BZZGR	D761712ZZGRB	SN0401043CGHC	TMS320F2809GGMA	TNETV17001NZZGR
1621B1UZZG	D761800FZZG	SN0406091GHC	TMS320F2809GGMS	TNETV17001PZZG
1621B1UZZGR	D761800FZZGR	SN0406091ZHC	TMS320F2809ZGMA	TNETV17001PZZGR
1621B1ZZG	D761800FZZGRB	SN0411207ZGU	TMS320F2809ZGMS	TNETV1700NNZZG
1621B1ZZGR	D761889ANZPHR	SN0506050ZHC	TMS320F2812GHHA	TNETV1700NNZZGR
1621B2UZZG	D761889AZGUR	SN082AA2GGW	TMS320F2812GHHR	TNETV1700ZZG
1621B2UZZGR	D761889AZPHR	SN082AA2ZGW	TMS320F2812GHHQ	TNETV1700ZZGR
1621B2ZZG	D761924B4ZGUR	SN104266BGGM-TEB	TMS320F2812GHHQR	TNETV1700ZZGRHS
1621B2ZZGR	D761924B4ZPHR	SN104286ZHHR	TMS320F2812GHHS	TNETV2005GGW
1710AN1UZZGR	D761924BPZGUR	SN104290AZGM	TMS320F2812ZHHA	TNETV2005WZGW
1710AN1ZZGR	D761924BPZPHR	SN104980GJG	TMS320F2812ZHHR	TNETV2005ZGW
1710C1UZZG	D761924ZGUR	SN105081GGM	TMS320F2812ZHHQ	TNETV2402GGU
1710C1ZZGR	D761924ZPHR	SN105093AGGW	TMS320F2812ZHHS	TNETV2402VIDGGU
1710CN31ZZGR	D761932A1ZZGR	SN105095GHK	TMS320IP5472GHK	TNETV2402VIDZGU
1710CN3UZZGR	D761932A71ZZGR	SN105095ZHK	TMS320LC548GGU-66	TNETV2402ZGU
1710CN3ZZGR	D761932AT1ZZGR	SN200502077ZHK	TMS320LC548GGU-80	TNETV2409ENGGU
1710CUZZG	D761932ZZGR	SN200503020GHK	TMS320LC549GGU-66	TNETV2409FIBGGU
1710CUZZGR	D7676C41ZPHR	SN2005114512ZHK	TMS320LC549GGU-80	TNETV2409FIDGGU
1710CZZG	D7676CN1ZPHR	SN2005118412ZHK	TMS320LC549GGUR-80	TNETV2409FISGGU
1710CZZGR	D7676CN1ZPHRB	SN744LVCH32501GKFR	TMS320M320ZHK	TNETV2409FNBGGU
1710DN1UZZGR	D7676CT1ZPHR	SN74LVT8986GGV	TMS320M321ZHK	TNETV2409FNDGGU
1710DN1ZZGR	D7676D41ZPHR	SN74LVT8986ZGV	TMS320M342ZHK	TNETV2409FNSGGU
1710E1ZZG	D7676DN1ZPHR	SN74SSTU32864CGKER	TMS320M640AGDK4	TNETV2409GGU
1710E1ZZGR	D7676EN1ZPHR	SN74SSTU32864CZKER	TMS320M640AGNZ4	TNETV2409VIBGGU
1710EN31ZZG	D7676ET1ZPHR	SN74SSTU32864DGKER	TMS320M641AGDK5	TNETV2409VIDGGU
1710EN31ZZGR	D771676CZPHR	SN74SSTU32864DZKER	TMS320M641AGDK6	TNETV2409VISGGU
1710EN3ZZGR	D7921C7ZPH42R	SN74SSTU32864EZKER	TMS320M641AGNZ5	TNETV2409VNBGGU
1710EZZG	D7921C7ZPH8R	SN74SSTU32864GKER	TMS320M641AGNZ6	TNETV2409VNDGGU
1710EZZGR	D7921CMZPH4R	SN74SSTU32864ZKER	TMS320M641AGNZ6SLG	TNETV2409VNSGGU
330BZZG	D7921CMZPH8R	SN74SSTU32866AZKER	TMS320M641AZNZ6SLG	TNETV2409ZGU
330BZZGR	D7921CNZPH4R	SN74SSTU32866GKER	TMS320M642AGDK5	TNETV2505CGGW
331AZZG	D7921CTZPH4R	SN74SSTU32866ZKER	TMS320M642AGDK6	TNETV2505CZGW
331AZZGR	D7921CTZPH8R	SN74SSTUB32864ZKER	TMS320M642AGDK6ADB	TNETV2505GGW

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730B-GZG	D7921CYZPH4R	SN74SSTUB32866ZKER	TMS320M642AGDK6HU1	TNETV2505ZGW
730B-GZGR	D7921CZPH4R	SN74SSTV32852GKFR	TMS320M642AGDK6HU2	TNETV2510CGGW
730B-ZZG	D7921CZPH8R	SN74SSTV32852ZKFR	TMS320M642AGDK6SEN	TNETV2510CZGW
730B-ZZGR	DC144DZGU	SN74SSTV32867GKER	TMS320M642AGDK6SOF	TNETV2510ENGW
74SSTU32864CZKER-J	DC144EZGU	SN74SSTV32877GKER	TMS320M642AGDK6ZT1	TNETV2510ENGW
74SSTUB32864AZKER	DC144IZGUR	SN74SSTVF32852KR	TMS320M642AGDK6ZTE	TNETV2510ENZGW
74SSTUB32866AZKER	DC144JZGU	SN74V263-10GGM	TMS320M642AGDK7	TNETV2510FIBGGW
74SSTVF32852ZKFR	DC144JZGUR	SN74V263-15GGM	TMS320M642AGDK7HU1	TNETV2510FIBZGW
750AGZG	DC144KZGU	SN74V263-6GGM	TMS320M642AGDK7HU2	TNETV2510FIDGGW
750AGZGR	DC173AZPH	SN74V263-7GGM	TMS320M642AGDK7SEN	TNETV2510FIDZGW
750AZZG	DC173BZPH	SN74V273-10GGM	TMS320M642AGDK7SOF	TNETV2510FISGGW
750AZZGR	DC181AGPHR	SN74V273-15GGM	TMS320M642AGDK7VNL	TNETV2510FNBGGW
751980CTAZZPH	DC181AZZPH	SN74V273-6GGM	TMS320M642AGDK7ZTE	TNETV2510FNDGGW
751980CTAZZPHR	DC181CZPH	SN74V273-7GGM	TMS320M642AGNZ5	TNETV2510FNDGGWA2
AD741987GGURVS	DC181DZPH	SN74V283-10GGM	TMS320M642AGNZ6	TNETV2510FNSGGW
ADS5120CZHK	DC289A1ZZG	SN74V283-15GGM	TMS320M642AGNZ6ADB	TNETV2510GNGW
ADS51211ZHK	DC289A2ZZG	SN74V283-6GGM	TMS320M642AGNZ6CMS	TNETV2510GGWA2
ADS5122CZHK	DC289A3ZZG	SN74V283-7GGM	TMS320M642AGNZ6HUM	TNETV2510GGWR
AVC32T245ZKER-D	DC289A4ZZG	SN74V293-10GGM	TMS320M642AGNZ613M	TNETV2510VIBGGW
C5509ZOOM1C2103DR	DC289A5ZZG	SN74V293-15GGM	TMS320M642AGNZ6KRE	TNETV2510VIDGGW
CD741987GGURVS	DC289AZZG	SN74V293-6GGM	TMS320M642AGNZ6SOF	TNETV2510VISGGW
CF144DCGGU	DC289AZZGR	SN74V293-7GGM	TMS320M642AGNZ6TEL	TNETV2510VNBGGW
CF151DCGHZ	DC289CGZG	SNA7412ZHK	TMS320M642AGNZ6UTS	TNETV2510VNDGGW
CF151DCGHZR	DC289HZZG	SNC1N21ZHK	TMS320M642AGNZ6WLS	TNETV2510VNSGGW
CF167DCGJJ	DC289JZZG	SNC1N22ZHK	TMS320M642AGNZ6ZXL	TNETV2510ZGW
CF176MECHGGW	DC289LZZG	SNC1Q22ZHK	TMS320M642AGNZ7	TNETV2510ZGWA2
CF240DCGGW	DC289MZZG	SNC1R22ZHK	TMS320M642AGNZ7HUM	TNETV2510ZGWR
CF241DCGZG	DC289PZZG	SNC1S22ZHK	TMS320M642AGNZ7SOF	TNETV2840ENGW
CF257DCGJG	DC289RZZG	SPC18402ZHK	TMS320M642AGNZ7UTS	TNETV2840ENZGU
D16782GGU100	DC289SZZG	T3031DZPH	TMS320M642AZDK5	TNETV2840FIBGGU
D16785GGU100	DC289TZZG	T3031DZPHR	TMS320M642AZDK6	TNETV2840FIDGGU
D16787GGU50	DC289YZZG	T3031FCZPH	TMS320M642AZDK6HU1	TNETV2840FIDGGUA
D16787ZGU50	DC289ZZZG	T3031FCZPHR	TMS320M642AZDK6SEN	TNETV2840FIDZGU
D16951GGU100	DC289ZZZGR	T3031FTZPHR	TMS320M642AZDK6ZT1	TNETV2840FIRGGU
D35004AGGW160	DC293AGZAR	T3031FZPH	TMS320M642AZDK7	TNETV2840FISGGU
D35004AZGW160	DC293AZZAR	T3031FZPHR	TMS320M642AZDK7HU1	TNETV2840FISZGU
D35004AZGW200	DC293BZZAR	TCM9104GGVR	TMS320M642AZDK7SEN	TNETV2840FNBGGU
D35004AZGWA200	DC6413G500SURE	TCM9105BGGVR	TMS320M642AZDK7VNL	TNETV2840FNBZGU
D36155GGU160	DC6413Z500SURE	TCM9125AGGV	TMS320M642AZDK7ZTE	TNETV2840FNDGGU
D36155ZGU160	DCT40358GGUR	TCM9125AGGV	TMS320M642AZNZ5	TNETV2840FNRGGU
D36656GGU-100	DCT4035GGUR	TCM9125GGVR	TMS320M642AZNZ6	TNETV2840FNSGGU
D36656ZGU-100	DCT44T0358GGUR	TDAVM5100GHK	TMS320M642AZNZ6A21	TNETV2840FNSZGU
D36680GGU-80	DCT44T035GGUR	TL16PC564BGGM	TMS320M642AZNZ6ADB	TNETV2840GGU
D36680GGUR-80	DCT44TC058GGUR	TMC57B02CGGW-N	TMS320M642AZNZ6CMS	TNETV2840GGUA
D36751GGW100	DCT44TC05GGUR	TMC57B08ZZA	TMS320M642AZNZ613M	TNETV2840MODGGU
D36751GGWR100	DCT4C058GGUR	TMS320ACLGGU	TMS320M642AZNZ6KRE	TNETV2840VIBGGU
D36780ZGU100	DCT4C05GGUR	TMS320ACLBGGU	TMS320M642AZNZ6MLL	TNETV2840VIBGGU
D36782GGU100	DCT4C05GZGR	TMS320ACLBZGU	TMS320M642AZNZ6TEL	TNETV2840VIDGGU
D36950GGU100	DCT4C07GGUR	TMS320ACLGGU	TMS320M642AZNZ6WLS	TNETV2840VIRGGU
D36950ZGU100	DCT4C07GZGR	TMS320ACLZGU	TMS320M642AZNZ7	TNETV2840VISGGU
D36953GGU-80	DD741987GGURVS	TMS320C5420GGUA200	TMS320M643AGDK5	TNETV2840VNBGGU
D36956ZGU100	DE129003GHHA	TMS320C5420GGUR200	TMS320M643AGDK6	TNETV2840VNDGGU
D5668BN1ZZZG	DE129003ZHHA	TMS320C5420ZGUA200	TMS320M643AGDK6SOF	TNETV2840VNDZGU
D5668BN1ZZZGR	DFDF2812GHHA	TMS320C5420ZGUR200	TMS320M643AGNZ5	TNETV2840VNRGGU
D6503BY1ZZGRV	DFDF2812ZHHA	TMS320C5421GGUR200	TMS320M643AGNZ6	TNETV2840VNSGGU
D6522A41ZPHR	DFDF2812ZHAR	TMS320C5421ZGUR200	TMS320M643AGNZ6SOF	TNETV2840ZGU
D6522AY1ZPHR	DM642AV1SG1C3106SC	TMS320C54CSTGGU	TMS320M643AZNZ6SLG	TNETV2840ZGUA
D6553BAF1ZPH	DM642CA7C5115AVC	TMS320C54CSTZGU	TMS320M643AZNZ6SOF	TNETV2842VNDGGU
D6553BAF1ZPHR	DRA1410AHB	TMS320C54V90AGGU	TMS320M644AGNZ6HUM	TNETW1100BGHH
D6553BF1ZPH	DRA1410AHBZ	TMS320C54V90BGGU	TMS320R2812GHHA	TNETW1100BGHHR
D6553BF1ZPHR	DS2000AZZZ	TMS320C54V90GGU	TMS320R2812GHHQ	TNETW1100BZHH
D6553BM1ZPH	ES-F711825GGW-T	TMS320C5502GZZR200	TMS320R2812GHHS	TNETW13502GGU
D6553BM1ZPHR	ES-TMC57931CGHK	TMS320C5502ZZR300	TMS320R2812ZHHA	TNETW13502GGUR
D6553BM2ZPH	ES-TMC57931DGHK	TMS320C6202BGNY250	TMS320R2812ZHHS	TNETW13502ZGU
D6553BM2ZPHR	ES-TMC57931EGHK	TMS320C6202BGNY300	TMS320SP103AGGW2	TNETW13502ZGUR
D6553BM3ZPH	ES-TMC57931FGHK	TMS320C6202BGNZ250	TMS320SP109AGHH	TNETW1350AGGU

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D6553BM3ZPHR	F312274GGU	TMS320C6202BGNZ300	TMS320SP109AZHH	TNETW1350AGGUR
D6553BM4ZPH	F711647AGGUR	TMS320C6202BZNY17V	TMS320SP250GGU-100	TNETW1350AZGU
D6553BM4ZPHR	F722500BZHK	TMS320C6202BZNY250	TMS320SP5410AGGU12	TNETW1350AZGUR
D6553BM5ZPHR	F722504DZHH	TMS320C6202BZNY300	TMS320SP5410AZGU12	TNETW5305GGW
D6553BM6ZPH	F731503AGHC	TMS320C6202BZNY250	TMS320SPVC5470GHC	TNETW11100BZHH
D6553BM6ZPHR	F731503BGHC	TMS320C6202BZNY300	TMS320SPVC5470ZHK	TNETW11100BZHHR
D6553BQAF1ZPH	F731503CGHC	TMS320C6203BGNY173	TMS320UC5402GGU-80	TNETW5100GGU
D6553BQAF1ZPHR	F731503DGHC	TMS320C6203BGNY176	TMS320UC5402ZGU-80	TNETW5100GGUR
D6553BQALZPH	F731653GGWR	TMS320C6203BGNY17V	TMS320UC5409GGU-80	TSB41BA3A1GGM
D6553BQALZPHR	F731653ZGWR	TMS320C6203BGNY300	TMS320UC5409GGUR80	TSB43AA82GGW
D6553BQAM4ZPH	F731671BGHC	TMS320C6203BGNY306	TMS320UC5409ZGU-80	TSB43AA821GGW
D6553BQAM4ZPHR	F731671BGHCR	TMS320C6203BGNYW3R	TMS320V342ZHK	TSB43CA42GGW
D6553BQAZPH	F731671BZHC	TMS320C6203BGNZ173	TMS320V640AGDK4	TSB43CA42ZGW
D6553BQAZPHR	F731723CGGUR-E	TMS320C6203BGNZ300	TMS320V640AGNZ4	TSB43CA43AGGW
D6553BQBF1ZPH	F731771BGGW	TMS320C6203BZNY173	TMS320V641AGDK5	TSB43CA43AZGW
D6553BQBF1ZPHR	F731863BGGW	TMS320C6203BZNY300	TMS320V641AGDK6	TSB43DA42AGHC
D6553BQBZPH	F731863BZGW	TMS320C6203BZNYW3R	TMS320V641AGNZ5	TSB43DA42AGHCR
D6553BQBZPHR	F731874GHR	TMS320C6203BZNY173	TMS320V641AGNZ6	TSB43DA42AZHC
D6553BQF1ZPH	F741541GGUHKR	TMS320C6203BZNY300	TMS320V642AGDK5	TSB43DA42AZHCR
D6553BQF1ZPHR	F741541GGGUR-1	TMS320C6204GHK200	TMS320V642AGDK6	TSB43DA42GHC
D6553BQM1ZPH	F741541GGGUR-E	TMS320C6204GHK200	TMS320V642AGNZ5	TSB43DA42GHCR
D6553BQM1ZPHR	F741550AGHK	TMS320C6204ZHK200	TMS320V642AGNZ6	TSB43DB42GHC
D6553BQM3ZPH	F741580AGGB	TMS320C6204ZHK200	TMS320V642AZDK5	TSB43DB42GHCR
D6553BQM3ZPHR	F741602BGGW	TMS320C6205DGHK200	TMS320V642AZDK6	TSB43DB42ZHC
D6553BQM4ZPH	F741602BGGWR	TMS320C6205DZHK200	TMS320V642AZDK7	TSB43DB42ZHCR
D6553BQM4ZPHR	F741714DGGT	TMS320C6205GHK200	TMS320V642AZNZ5	TSB82AA2GGW
D6553BQZPH	F741714DGGTR	TMS320C6205GHK200	TMS320V642AZNZ6	TSB82AA2ZGW
D6553BQZPHR	F741714EGGT	TMS320C6205ZHK200	TMS320V642AZNZ7	TWL1101GGV
D6553BS1ZPH	F741714EGGTR	TMS320C6205ZHK200	TMS320V643AGDK5	TWL1101GGVR
D6553BS1ZPHR	F741747GHC	TMS320C6410GTS400	TMS320V643AGDK6	TWL2216AGGMR
D6553BTBS3ZPH	F741747ZHC	TMS320C6410ZTS400	TMS320V643AGNZ5	TWL3001GGM
D6553BTBS3ZPHR	F741757GHC	TMS320C6410ZTS400	TMS320V643AGNZ6	TWL3001GGMR
D6553BTF1ZPHR	F741843CGGU	TMS320C6412AGDK5	TMS320V643AZDK6	TWL3014CGGM
D6553BTM4ZPH	F741843CZGU	TMS320C6412AGDK6	TMS320VC5401GGU50	TWL3014CGGMR
D6553BTM4ZPHR	F741894GHC	TMS320C6412AGDK7	TMS320VC5401ZGU50	TWL3014CZGM
D6553BTS3ZPHR	F741894ZHC	TMS320C6412AGDKA5	TMS320VC5402AGGU16	TWL3014CZGMR
D6553BTZPH	F741923AGHK	TMS320C6412AGDKA6	TMS320VC5402AZGU16	TWL3021GGM
D6553BTZPHR	F741981GGW	TMS320C6412AGNZ5	TMS320VC5402GGU100	TWL3021GGMR
D6553BUAF1ZPH	F741987AGGU-\$4	TMS320C6412AGNZ6	TMS320VC5402GGUHFK	TWL3025BAZGMR
D6553BUAF1ZPHR	F741987AGGUR\$4	TMS320C6412AGNZ7	TMS320VC5402GGUR10	TWL3025BGGM
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D6553BUM4ZPH	F751517CGHC	TMS320C6412AZDK6	TMS320VC5407GGU	TWL3025BZGM
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D6553BUZPH	F751928GHC	TMS320C6412AZNZA5	TMS320VC5409GGU100	TWL93013BGHHR
D6553BUZPHR	F761536/P	TMS320C6412ZDK500	TMS320VC5409GGU-80	TWL93013BZHHR
D6553BZPH	F761536A/P	TMS320C6413GTS500	TMS320VC5409ZGU100	TWL93017CGPHR
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信頼性試験

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 — 試料構成詳細				
Qual Device:	ADS5121IZHK	Die Rev/ Size(mils):	A / -	
Wafer fab Site	DMOS5	Technology/ Process:	CMOS/ 1833C05	
Assembly Site	TAI	Pkg/ Code/ Pin:	uBGA/ ZHK/ 257	
Mount compound	ABL 84-3MV	Mold Compound	KCC KTMC5800GL	
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnAgCu	Moisture Sensitivity Level	LEVEL3-260C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
** Unbiased HAST	130C/85%RH,96 hrs	77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys	77/0	77/0	77/0
** Thermal Shock	-55/125C,1000 cys	77/0	77/0	77/0
Moisture Sensitivity, JEDEC	Level 3-260C	12/0	12/0	12/0
Manufacturability	Per Mfg site spec.	Approved		
Physical Dimensions	-	5/0	5/0	5/0
Note: ** Preconditioning JEDEC Level 3-260C				

信頼性試験結果							
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日			
信頼性試験 - 試料構成詳細							
Qual Device:	D7676DD1ZPHR	Die Rev/ Size(mils):	D / -				
Wafer fab Site	-	Technology/ Process:	CMOS/ 1218C021.M6				
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ ZPH/ 173				
Mount compound	ABL 84-3MVB-TI	Mold Compound	KCC KTMC5800GL				
Bond Wire:	TS-0.9mils Au	Substrate finish (Ball Side)	THIN/NI CUPLUG				
Solder Ball Composition	SnAgCu	Moisture Sensitivity Level	LEVEL3-260C				
Flammability Rating	UL 94 V-0						
信頼性試験結果							
Reliability Test	Condition / Duration	Sample Size/ Fails					
		-	--	---	Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.				Approved		
Physical Dimensions	-				5/0	5/0	5/0
** Life Test	125C,1000 Hrs				43/0	43/0	43/0
** Biased Temperature Humidity	85C/85%RH,1000 hrs				26/0	26/0	26/0
** Unbiased HAST	110C/85%RH,192 hrs				77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys				84/0	84/0	84/0
** Thermal Shock	-55/125C 1000 cys				77/0	77/0	77/0
High Temp Storage Bake	150C,1000 Hs				77/0	77/0	77/0
ESD - CDM	500 V	5/0	5/0	5/0	-	-	-
Moisture Sensitivity, JEDEC	Level 3-260C				12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 3-260C							

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 - 試料構成詳細				
Qual Device:	PCI7411GHK	Die Rev/ Size(mils):	C / -	
Wafer fab Site	-	Technology/ Process:	CMOS/ 1533C035.16	
Passivation	10.5KA OX/ 10KA CN			
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ GHK/ 288	
Mount compound	ABL 84-3MV	Mold Compound	KCC KTM5800GL	
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnPb	Moisture Sensitivity Level	LEVEL3-220C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.	Approved		
** Unbiased HAST	110C/85%RH ,192 hrs	77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys	84/0	84/0	84/0
** Thermal Shock	-55/125C,1000 cys	77/0	77/0	77/0
Moisture Sensitivity, JEDEC	Level 3-220C	12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 3-220C				

信頼性試験結果							
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日			
信頼性試験 — 試料構成詳細							
Qual Device:	TMS320ACLGGU	Die Rev/ Size(mils):	C / -				
Wafer fab Site	DM5	Technology/ Process:	CMOS/ 1533C05.A5				
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ GGU/ 169				
Mount compound	NEX-130C	Mold Compound	KCC KTM C5800GL				
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu				
Solder Ball Composition	SnPb	Moisture Sensitivity Level	LEVEL3-220C				
Flammability Rating	UL 94 V-0						
信頼性試験結果							
Reliability Test	Condition / Duration	Sample Size/ Fails					
		-	--	---	Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.				Approved		
Physical Dimensions	-				5/0	5/0	5/0
** Unbiased HAST	110C/85%RH,192 hrs				77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys				84/0	84/0	84/0
** Thermal Shock	-55/125C 1000 cys				77/0	77/0	77/0
High Temp Storage Bake	150C,1000 Hs				77/0	77/0	77/0
ESD - CDM	500 V	5/0	5/0	5/0	-	-	-
Moisture Sensitivity, JEDEC	Level 3-220C				12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 3-220C							

信頼性試験結果							
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日			
信頼性試験 — 試料構成詳細							
Qual Device:	TNETV1700ZZG	Die Rev/ Size(mils):	- / -				
Wafer fab Site	-	Technology/ Process:	CMOS/ 1218C027.05				
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ ZZG/ 289				
Mount compound	NEX130C	Mold Compound	KCC KTM5800GL				
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	Cu Plug				
Solder Ball Composition	SnAgCu	Moisture Sensitivity Level	LEVEL3-260C				
Flammability Rating	UL 94 V-0						
信頼性試験結果							
Reliability Test	Condition / Duration	Sample Size/ Fails					
		-	--	---	Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.				Approved		
Physical Dimensions	-				5/0	5/0	5/0
** Unbiased HAST	110C/85%RH,192 hrs				77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys				84/0	84/0	84/0
** Thermal Shock	-55/125C 1000 cys				77/0	77/0	77/0
High Temp Storage Bake	150C,1000 Hs				77/0	77/0	77/0
ESD - CDM	500 V	5/0	5/0	5/0	-	-	-
Moisture Sensitivity, JEDEC	Level 3-260C				12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 3-260C							

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 – 試料構成詳細				
Qual Device:	TWL92210FGGVR	Die Rev/ Size(mils):	B / -	
Wafer fab Site	DFAB	Technology/ Process:	Bi-CMOS/ LBC3S	
Passivation	10KACN			
Assembly Site	TAI	Pkg/ Code/ Pin:	uBGA/ GGV/ 64	
Mount compound	ABL 84-3MVB-TI	Mold Compound	KCC KTMCM5800GL	
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnPb	Moisture Sensitivity Level	LEVEL2A-235C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.	Approved		
Physical Dimensions	-	5/0	5/0	5/0
** Unbiased HAST	110C/85%RH ,192 hrs	77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys	84/0	84/0	84/0
** Thermal Shock	-55/125C,1000 cys	77/0	77/0	77/0
High Temp Storage Bake	150C, 168 Hours	77/0	77/0	77/0
Moisture Sensitivity, JEDEC	Level 2-235C	12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 2-235C				

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 - 試料構成詳細				
Qual Device:	TWL93013BGHHR	Die Rev/ Size(mils):	CA / -	
Wafer fab Site	-	Technology/ Process:	Analog / 3370A12X3	
Passivation	12KA CN			
Assembly Site	TAI	Pkg/ Code/ Pin:	uBGA/ GHH/ 179	
Mount compound	ABL 84-3MVB-TI	Mold Compound	KCC KTM5800GL	
Bond Wire:	TS-1.3mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnPb	Moisture Sensitivity Level	LEVEL3-220C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.	Approved		
** Unbiased HAST	110C/85%RH ,192 hrs	77/0	77/0	77/0
** Temperature Cycle	-55/125C,1000 cys	77/0	77/0	77/0
** Thermal Shock	-55/125C,1000 cys	77/0	77/0	77/0
Moisture Sensitivity, JEDEC	Level 3-220C	12/0	12/0	12/0
Note: ** Preconditioning JEDEC Level 3-220C				

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 - 試料構成詳細				
Qual Device:	TWL93013BZHHR	Die Rev/ Size(mils):	CA / -	
Wafer fab Site	-	Technology/ Process:	Analog / 3370A12X3	
Passivation	12KA CN			
Assembly Site	TAI	Pkg/ Code/ Pin:	uBGA/ ZHH/ 179	
Mount compound	ABL 84-3MVB-TI	Mold Compound	KCC KTMC5800GL	
Bond Wire:	TS-1.3mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnAgCu	Moisture Sensitivity Level	LEVEL3-260C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
** Life Test, 125C	1000 Hours	36/0	35/0	43/0
Note: ** Preconditioning JEDEC LEVEL3-260C				

信頼性試験結果				
信頼性試験期間	開始	—	終了	2008 年 6 月 12 日
信頼性試験 - 試料構成詳細				
Qual Device:	XD761571EZPHER	Die Rev/ Size(mils):	CA / -	
Wafer fab Site	-	Technology/ Process:	C027/ 1218C027.05RF	
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ ZPH/ 173	
Mount compound	NEX-130C	Mold Compound	KCC KTM5800GL	
Bond Wire:	TS-0.8mils Au	Substrate finish (Ball Side)	NiAu	
Solder Ball Composition	SnAgCu	Moisture Sensitivity Level	LEVEL3-260C	
Flammability Rating	UL 94 V-0			
信頼性試験結果				
Reliability Test	Condition / Duration	Sample Size/ Fails		
		Lot A	Lot B	Lot C
Manufacturability	Per Mfg site spec.	Approved		
Electrical Characterization	Per Products spec.	Approved		

信頼性試験

信頼性試験結果								
信頼性試験期間	開始	—	終了	2008 年 8 月 18 日				
信頼性試験 - 試料構成詳細								
Qual Device:	TMS320VC5409GGU100	Die Rev/ Size(mils):	A / -					
Wafer fab Site	DM5	Technology/ Process:	C07/ 1833C07					
Passivation	10KACN							
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ GGU/ 144					
Mount compound	ABLESTIK 84-3MVB-TI	Mold Compound	KCC KTMCM5800GL					
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu					
Solder Ball Composition	SnPb	Moisture Sensitivity Level	LEVEL3-220C					
Flammability Rating	UL 94 V-0							
信頼性試験結果								
Reliability Test	Condition / Duration	Sample Size/ Fails (Lot A-G)						
		A	B	C	D	E	F	G
Flammability	UL94V-0	5/0						
** Biased HAST	130C/85%RH,96 hrs	77/0						
Side by Side Electrical Char.	Per Products spec.	5/0						
Long Term Bond Reliability	-	Pass						
*** Life test	125C,1000 hrs		35/0	34/0	38/0			
Physical Dimensions	-		5/0	5/0	5/0			
Manufacturability	Per Mfg site spec.		Approved					
*** Unbiased HAST	130C/85%RH ,96 hrs		77/0	77/0	76/0			
*** Temperature Cycle	-55/125C,1000 Cys		79/0	79/0	78/0			
*** Thermal Shock	-55/125C,1000 Cys		77/0	77/0	77/0			
High Temp Storage Bake	150C,1000 Hrs		77/0	77/0	77/0			
ESD - CDM	1500 V					5/0	5/0	5/0
Moisture Sensitivity, JEDEC	Level 3-220C		12/0	12/0	12/0			
Note: ** Preconditioning JEDEC LEVEL3-260C								
*** Preconditioning JEDEC LEVEL3-220C								

信頼性試験結果					
信頼性試験期間	開始	—	終了	2008 年 8 月 18 日	
信頼性試験 — 試料構成詳細					
Qual Device:	TNETV2510GGW	Die Rev/ Size(mils):	C / -		
Wafer fab Site	DM6	Technology/ Process:	CMOS / C035		
Passivation	10KAOX/10KACN				
Assembly Site	PHI	Pkg/ Code/ Pin:	uBGA/ GGU/ 240		
Mount compound	ABLEBOND 84-3MV	Mold Compound	KCC KTMCM5800GL		
Bond Wire:	TS-0.95mils Au	Substrate finish (Ball Side)	NiAu		
Solder Ball Composition	SnPb	Moisture Sensitivity Level	L3 220C		
Flammability Rating	UL 94 V-0				
信頼性試験結果					
Reliability Test	Condition / Duration	Sample Size/ Fails			
		Lot A	Lot B	Lot C	Lot D
Flammability	UL94V-0	5/0			
** Biased HAST	130C/85%RH,96 hrs	77/0			
Side by Side Electrical Characterization	Per Products spec.	5/0			
Long Term Bond Reliability	-	Pass			
*** Life Test	125C,1000 hrs		43/0	43/0	43/0
Physical Dimensions	-		5/0	5/0	5/0
Manufacturability	Per Mfg site spec.		Approved		
ESD - CDM	1500 V		5/0	5/0	5/0
*** Unbiased HAST	130C/85%RH,96 hrs		79/0	79/0	79/0
*** Temperature Cycle	-55/125C,1000 cys		86/0	86/0	86/0
*** Thermal Shock	-55/125C,1000 cys		79/0	79/0	79/0
High Temp Storage Bake	150C,1000 Hrs		79/0	77/0	79/0
Moisture Sensitivity, JEDEC	Level 3-220C		12/0	12/0	12/0
Preconditioning Information					
** JEDEC Level 3-260C. *** JEDEC Level 3-220C					