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西新宿三井ビルディング

報告書番号：PCN#20070216000

2007 年 9 月 28 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 (牧)uBGAパッケージ製品 Green化モールドコンパウンド追加予定のご案内

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	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) KTMC5800GL (Green 対応)			
対象製品	対象製品リスト参照			
変更時期	2008 年 2 月上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	—			

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

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変更内容

内容：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 KTCM5800GL (Green 対応) を追加し認定する予定です。尚、KCC社はAmkor社などの主要半導体組立メーカーへの封止樹脂材供給メーカーで、今回のKTCM5800GLも環境影響軽減に寄与するRoHS対応のモールドコンパウンドになります。

変更内容	現行	変更後
モールド	ShinEtsu社 KMC284B (Green 対応)	ShinEtsu社 KMC284B (Green 対応)
コンパウンド	Hitachi社 CEL9200NT (Green 未対応)	KCC社 KTCM5800GL (Green 対応)

理由：環境影響軽減及び製品供給能力の確保の為

対象製品リスト

対象製品名				
1510GZZG2	D751979C1ZZG	PC16412ZHK	TMS320DA255ZHH1	TMS320VC5510AZGWA2
1510GZZG2R	D751979C1ZZGR	PC16420ZHK	TMS320DA255ZHHR	TMS32C6205DGHKA200
1610F1ZZG	D751980C1ZZPH	PC16515AZHK	TMS320DA260AGGWA2	TMS32C6205DZHKA200
1610F1ZZGR	D751980C1ZZPHR	PC16612ZHK	TMS320DA295CZZG	TMS32VC5509AGHHRAU
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1611BZZGR	D751986EGGUR	PC17410ZHK	TMS320DCA0206-AGHH	TMSDVC5410AGGUR16
1621B1UZZG	D751986EZZGUR	PC17411ZHK	TMS320DCA0206GHH-A	TMSDVC5410AZGUR120
1621B1ZZG	D751992A4ZPHR	PC17412ZHK	TMS320DCA0206ZHH-A	TMSDVC5410GGWR100
1621B1ZZGR	D751992AZHH	PC17420BZHK	TMS320DM100ZJJR	TMSDVC5416GGUR160
1621B2UZZG	D751992AZHHR	PC17420GHK	TMS320DM270GHK	TMSDVC5510AGGWA2
1621B2UZZGR	D751992AZPH	PC17420ZHK	TMS320DM270ZHK	TMX320DA295ZZGD
1621B2ZZG	D751992AZPHR	PC17421ZHK	TMS320DM270ZHK-K	TMX320DM299ZJJ
1621B2ZZGR	D751992GHH	PC17510GHK	TMS320DM270ZHK-KU	TMX320DM299ZJJR
1710AN1UZZGR	D751992GHHR	PC17611ZHK	TMS320DM299ZJJR	TNETD4020GGT
1710AN1ZZGR	D751997AGZAR	PC17612ZHK	TMS320DM310GHK21	TNETD5080GGW
1710C1UZZG	D751997AZZAR	PC18402ZHK	TMS320DM310GHK22H	TNETD8100GHC
1710C1ZZGR	D761503BZZGR	PC18412ZHK	TMS320DM310GHK22S	TNETV1001DIWZHK
1710CN31ZZGR	D761522ZPHR	PD711953CGGUR	TMS320DM310ZHK22H	TNETV1001DIZHK
1710CN3UZZGR	D761712ZZGR	PD751542BGGU	TMS320DM310ZHK22S	TNETV1700ZZG
1710CN3ZZGR	D761712ZZGRB	PD751542BGGUR	TMS320DM320AZHK	TNETV1700ZZGR
1710CUZZG	D761800FZZG	PD751681GGW	TMS320DM320ZHK	TNETV2005GGW
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1710CZZG	D761800FZZGRB	PD751728BGZG	TMS320DM321ZHK	TNETV2402GGU
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1710DN1UZZGR	D761889AZGUR	PD751992GHHR	TMS320DRE200GGU160	TNETV2409GGU
1710DN1ZZGR	D761889AZPHR	POMAP310GZZG	TMS320DRE200ZGU160	TNETV2409ZGU
1710E1ZZG	D761924BPZPHR	POMAP310GZZGR	TMS320DRE201GGU160	TNETV2505GGW
1710E1ZZGR	D761924ZGUR	POMAP710BGZG1R	TMS320DRE310GHH	TNETV2505ZGW
1710EN3ZZGR	D761924ZPHR	PTCM9104AGGVR	TMS320DRE310ZHH	TNETV2510GGW
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331AZZG	D7921CZPH8R	PTWL1101GGVR	TMS320DRM300ZHH	TNETV2510ZGWR
331AZZGR	DCT40358GGUR	PTWL2216GGMR	TMS320DRM350GHH	TNETV2840FNBGGU
730B-GZG	DCT4035GGUR	PTWL3001GGMR	TMS320DRM350ZHH	TNETV2840FNBZGU
730B-GZGR	DCT44T0358GGUR	PTWL3021GGM	TMS320DSC21GHK	TNETV2840GGU
730B-ZZG	DCT44T035GGUR	PTWL3021GGMR	TMS320DSC24GHK-D	TNETV2840GGUA
730B-ZZGR	DCT44TC058GGUR	PTWL91302GGV	TMS320DSC24GHK-DPA	TNETV2840VNDGGU
74SSTU32864CZKER-J	DCT44TC05GGUR	PTWL91302GGVR	TMS320DSC24GZA	TNETV2840ZGU

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74SSTVF32852ZKFR	DCT4C05GZGR	SN0301018GHK	TMS320DSC25GHK-B	TNETW1100BGHHR
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ADS5120CZHK	ES-F711825GGW-T	SN0304510GHK	TMS320F2802GGMA	TNETW5305GGW
ADS51211ZHK	ES-TMC57931CGHK	SN0307009BZHK	TMS320F2802GGMS	TNETWL1100BZHH
ADS5122CZHK	ES-TMC57931DGHK	SN0307009GHK	TMS320F2802ZGMA	TNETWL1100BZHHR
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CF151DCGHZ	F711647AGGUR	SN0308037GHK	TMS320F2806ZGMA	TSB43CA42GGW
CF167DCGJJ	F722500BZHK	SN0308037ZHK	TMS320F2806ZGMS	TSB43CA42ZGW
CF176MECHGGW	F722504DZHH	SN0401032GGW	TMS320F2808GGMA	TSB43CA43AGGW
CF240DCGGW	F731503DGHK	SN0401032ZGW	TMS320F2808GGMS	TSB43CA43AZGW
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D6553BTS3ZPHR	F751867AZGW	SN74V263-15GGM	TMS320VC5402ZGU100	WVC5410AGGU120
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D6553BUM4ZPH	F761536A/P-NOM	SN74V273-6GGM	TMS320VC5409AGGU12	X751668B1ZZZGR
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D741821AZHK	OMAP1510GZZG1	TDAVM5100GHK	TMS320VC5441AGGU	XD7515421ZGUR
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D751668B1ZZZG	P1710CN01SZZGR	TMS320C5420ZGUR200	TMS320VC5471ZHK	XD761571EZPHR
D751668B1ZZZGR	P330BGZGR	TMS320C5421GGUR200	TMS320VC5471ZHKA	XD761806AGGU
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D751685AGZAR	P6928BM1ZPHR	TMS320C54CSTZGU	TMS320VC5472CGHKR	XD761924GGU
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D751685AL1GZAR	PC11410AGHK	TMS320C54V90BGGU	TMS320VC549GGU-100	XF721714AGGUR
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D751685AL1ZZAR	PC11410GGU	TMS320C5502GZZR200	TMS320VC549GGU-80	XF721848GGVR
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D751685AS1ZZAR	PC11420ZHK	TMS320C6204GHK200	TMS320VC549GGUR100	XF731575GGGU
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D751685AZZA	PC11520GHK	TMS320C6205DGHK200	TMS320VC5501ZZZ300	XF731754FGHK
D751685AZZAR	PC11520ZHK	TMS320C6205DZHK200	TMS320VC5502GZZ200	XF731929GGWR
D751728BZZGR	PC11620GHK	TMS320C6205GHK200	TMS320VC5502GZZ300	XF741541EGGU
D751748BZZGR	PC11620ZHK	TMS320C6205GHKA200	TMS320VC5502ZZZ200	XF741541EGGUR
D7517494GHH	PC12040GGU	TMS320C6205ZHK200	TMS320VC5502ZZZ300	XF741541FGGUR
D7517494GHR	PC12040ZGU	TMS320C6205ZHKA200	TMS320VC5503GHH	XF741541GGGU
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D7517497ZHHR	PC12050B1ZHK	TMS320DA100GGW100	TMS320VC5506GHR	XF741541HGGURC

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D751749GHR	PCI2050BZHK	TMS320DA102BGGUR	TMS320VC5506ZHHR	XF741541JGGUR
D751749TZHR	PCI2050GHK	TMS320DA105GGU120	TMS320VC5507GHH	XF741809AGGUH
D751749ZHH	PCI2050IGHK	TMS320DA105GGU160	TMS320VC5507ZHH	XF741809CGGUR
D751749ZHHR	PCI2050IZHK	TMS320DA105ZGU120	TMS320VC5507ZHHR	XF741809GGUR
D751749ZPH	PCI2050ZHK	TMS320DA105ZGU160	TMS320VC5509AGHH	XF741817AGGW
D751749ZPHR	PCI2060GHK	TMS320DA150GGU120	TMS320VC5509AGHHR	XF741817AGGWR
D751774AGHH	PCI2060IGHK	TMS320DA150GGU160	TMS320VC5509AZHH	XF751737IGGUR7
D751774AGHHR	PCI2060ZHK	TMS320DA150GGUR160	TMS320VC5509AZHHR	XI01100GGB
D751774AZHHR	PCI4410AGHK	TMS320DA150ZGU160	TMS320VC5510AGGW1	XI01100ZGB
D751979A1ZZG	PCI4510AGHK	TMS320DA150ZGUR120	TMS320VC5510AGGW2	XI02000AGZZ
D751979A1ZZGR	PCI4510AZHK	TMS320DA150ZGUR160	TMS320VC5510AGGWA1	XI02000AZHH
D751979ASZZGR	PCI4510GHK	TMS320DA180GHK	TMS320VC5510AGGWA2	XI02000AZZZ
D751979AZZG	PCI4510ZHK	TMS320DA255GHH	TMS320VC5510AGPHA2	XI02200AGGW
D751979AZZGR	PCI4512ZHK	TMS320DA255GHH1	TMS320VC5510AZGW1	XI02200AZGW
D751979B1ZZG	PCI4520GHK	TMS320DA255GHHR	TMS320VC5510AZGW2	XI02200AZHH
D751979B1ZZGR	PCI4520ZHK	TMS320DA255ZHH	TMS320VC5510AZGWA1	

信頼性試験

信頼性試験計画				
信頼性試験期間	開始	2007 年 6 月 1 日	終了	2007 年 11 月 30 日
信頼性試験 - 試料構成詳細				
	Device 1	Device 2	Device 3	Device 4
Device:	PCI7411GHK	TMS320ACLGGU	TNETV1700ZZG	D7676DD1ZPHR
Wafer Technology:	C035	C05	C027	C021
Die Size: (mm)	4.3 x 5.3	9.4 x 9.2	6.3 x 6.0	3.3 x 4.1
Assembly Site:	TIPI	TIPI	TIPI	TIPI
Package Code/ Pin:	ZHK / 288	GGU / 169	ZZG / 289	ZPH / 173
Mold Compound:	KTMC5800GL	KTMC5800GL	KTMC5800GL	KTMC5800GL
Mold Compound Supplier:	KCC	KCC	KCC	KCC
Solder Ball Composition:	SNPB	SNPB	SNAGCU	SNAGCU
Die Attach:	84-3MV	NEX130C	NEX130C	84-3MVB- TI
Die Attach Supplier:	ABLESTICK	Nippon Steel Che.	Nippon Steel Che.	ABLESTIK
Moisture Level:	LEVEL3-220C	LEVEL3-220C	LEVEL3-260C	LEVEL3-260C
	Device 5	Device 6	Device 7	Device 8
Device:	ADS5121IZHK	TWL92210FGGVR	TWL93013BGHHR	TNETD5080GGW
Wafer Technology:	C05	LBC3S	A12	A12
Die Size: (um)	5.6 x 6.0	4.8 x 4.8	4.7 x 4.5	12.3 x 10.1
Assembly Site:	TITL	TITL	TITL	HIJI
Package Code/ Pin:	ZHK / 257	GGV / 64	GHH / 179	ZGW / 240
Mold Compound:	KTMC5800GL	KTMC5800GL	KTMC5800GL	KTMC5800GL
Mold Compound Supplier:	KCC	KCC	KCC	KCC
Solder Ball Composition:	SNAGCU	SNPB	SNPB	SNPB
Die Attach:	84-3MV	4111062-1002	84-3MV	84-3MV
Die Attach Supplier:	ABLESTICK	ABLESTIK	ABLESTICK	ABLESTICK
Moisture Level:	LEVEL3-260C	LEVEL2A-235C	LEVEL3-220C	LEVEL3-220C
信頼性試験計画				
Reliability Test	Condition		# of lot / Sample Size	
** Temp Cycle	-55/125C		3 / 84	
** Thermal Shock	-55/125C		3 / 77	
** Unbiased HAST	130C/85RH		3 / 77	
Life Test	125 C/voltage per device spec		3 / 43	
** Biased HAST	130C/85RH		3 / 77	
High Temp Storage	150C, no precon required		3 / 77	
Extended HTSL	150C		3 / 100	
Flammability	Use QSS 009-111 and UL1694 test conditions		3 / 5	
Physical Dimension	Per Products Drawing		3 / 5	
ESD	CDM/500V		3 / 5	
Thermal Impedance	Per Products Spec.		-	
Moisture Sensitivity	Per device MSL condition on two nonconsecutive lots		24	
Manufacturability	Assembly			
Notes:				
** : Test requires Moisture Preconditioning				
Not all listed Qual Tests will be performed on each package type.				
Unless otherwise stated, sample sizes represent combined quantities from three qual lots.				