12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN#20150327001
Qualification of New Lead Frame Base Material for Selected Devices
Change Notification / Sample Request

Date: 4/2/2015
To: Newark/Farnell PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services

20150327001
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
PCM1798DB	null
PCM1802DB	null
PCM1804DB	null
PCM2704DB	null
PCM2902E	null
DSD1794ADB	null
PCM1716E	null
PCM1770PW	null
PCM1771PW	null
PCM1791ADB	null
PCM1793DB	null
PCM1794ADB	null
PCM1796DB	null
PCM1803ADB	null
PCM2900CDB	null
PCM2900E	null
PCM2903CDB	null
PCM2904DB	null
PCM2906CDB	null
PCM3010DB	null
PCM3500E	null
PCM1792ADB	null
PCM1792DB	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20150327001	PCN Date:	04/02/2015
Title:	Qualification of New Lead Frame Base Material for Selected Devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	07/02/2015	Estimated Sample Availability:	Provided upon Request

Change Type:

☐	Assembly Site	☐	Assembly Process	☒	Assembly Materials
☐	Design	☐	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process
		☐	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of a new lead frame base material for the devices listed below as follows:

	Current	New
Lead frame Base Material	MF202	**C194**

All other BOM elements will remain the same.

Reason for Change:

Continuity of Supply

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

None

Product Affected

ADS932E/2K	PCM1731E/2K	PCM1796DBR	PCM2903E
DF1704E	PCM1732U	PCM1798DB	PCM2904D1DB
DF1706E	PCM1732U/1K	PCM1798DBR	PCM2904D1DBR
DIR1701E	PCM1737E	PCM1800E	PCM2904DB
DIR1703E	PCM1737E/2K	PCM1800E/2K	PCM2904DBR
DIR1703E/2K	PCM1738E	PCM1802DB	PCM2906BDB
DSD1791DB	PCM1738E/2K	PCM1802DBR	PCM2906BDBR
DSD1791DBR	PCM1738EG-3/2K	PCM1803ADB	PCM2906CDB
DSD1792ADB	PCM1739E	PCM1803ADBR	PCM2906CDBR
DSD1792ADBR	PCM1739E/2K	PCM1803DB	PCM2906DB
DSD1792DB	PCM1740E	PCM1803DBR	PCM3000E
DSD1792DBR	PCM1740E/2K	PCM1804DB	PCM3000E/2K
DSD1793DB	PCM1745E/2K	PCM1804DBR	PCM3001E

DSD1793DBR	PCM1770PW	PCM1804S1DBR	PCM3001E/2K
DSD1794ADB	PCM1770PWR	PCM2702E	PCM3002E
DSD1794ADBR	PCM1770RGA	PCM2702E/2K	PCM3002E/2K
DSD1794DB	PCM1770RGAR	PCM2704DB	PCM3002EG
DSD1796DB	PCM1771PW	PCM2704DBR	PCM3002EG/2K
DSD1796DBR	PCM1771PWR	PCM2705DB	PCM3003E
PCM1606E	PCM1771RGA	PCM2705DBR	PCM3003E/2K
PCM1606E/2K	PCM1772PW	PCM2900BDB	PCM3008T
PCM1606EG/2K	PCM1772PWR	PCM2900BDBR	PCM3008T/2K
PCM1716E	PCM1772RGA	PCM2900CDB	PCM3008TG/2K
PCM1716E/2K	PCM1772RGAR	PCM2900CDBR	PCM3010DB
PCM1716EG	PCM1773PW	PCM2900E	PCM3010DBR
PCM1716EG/2K	PCM1773PWR	PCM2900E-P	PCM3052ARTF
PCM1717E	PCM1773RGA	PCM2900E/2K	PCM3052ARTFR
PCM1717E/2K	PCM1791ADB	PCM2901E	PCM3500E
PCM1718E	PCM1791ADBR	PCM2901E/2K	PCM3500E/2K
PCM1718E/2K	PCM1792ADB	PCM2902BDB	PCM3501E
PCM1720E	PCM1792ADBR	PCM2902BDBR	PCM3501E/2K
PCM1720E/2K	PCM1792DB	PCM2902CDB	PLL1700E
PCM1723E	PCM1792DBR	PCM2902CDBR	PLL1700E/2K
PCM1723E/2K	PCM1793DB	PCM2902E	PLL1700EG
PCM1727E	PCM1793DBR	PCM2902E/2K	PLL1700EG/2K
PCM1728E	PCM1794ADB	PCM2903BDB	VSP2272M/2K
PCM1728E/2K	PCM1794ADBR	PCM2903BDBR	VSP2582ARHNR
PCM1730E	PCM1794DB	PCM2903CDB	VSP2582RHN
PCM1730E-1/2K	PCM1794DBR	PCM2903CDBR	VSP2582RHNR
PCM1731E-1/2K	PCM1796DB		

Qualification Report

Lead Frame Base Material Qualification : C194 for the VSP5100PDT

Approved 10/25/2014

Product Attributes

Attributes	Qual Device: VSP5100PDT	QBS Product/Package: VSP5100PDT
Assembly Site	NST	NST
Package Family	TQFP	TQFP
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Site	VANGUARD	VANGUARD
Wafer Fab Process	0.35UM 2P3M	0.35UM 2P3M

- QBS: Qual By Similarity
- Qual Device VSP5100PDT is qualified at LEVEL3-260C

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: VSP5100PDT	QBS Product/Package: VSP5100PDT
UHAST	Unbiased HAST 130C/85%RH	96 Hours	2/160/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	2/160/0	3/77/0
SD	Solderability	PB-Free	2/44/0	-
LI	Lead Finish Adhesion	Leads	2/30/0	-
HTOL	High Temperature Life Test, 125C	1000 Hours	-	3/120/0
HAST	Biased HAST 130C/85%RH	96 Hours	-	3/77/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/77/0
ESD	ESD-HBM	2000V	-	1/3/0
ESD	ESD-CDM	500V	-	1/3/0
LU	Latch-up	Per JESD78	-	1/6/0

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com