

PCN#20170613005B Qualification of Hefei Tongfu Microelectronic Co. Ltd (HFTF) as additional Assembly and Test Site for Select Devices Change Notification / Sample Request

Date:October 24, 2017To:TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

Revision B is to announce the <u>retraction</u> of select devices.

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 proposed first ship date is indicated on page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

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 (<u>PCN ww admin team@list.ti.com</u>).

Sincerely,

PCN Team SC Business Services

20170613005B 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

TL331IDBVT SN74LVC1G125DBVT

CUSTOMER PART NUMBER

null null

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

PCN Number: 20170613005B							PCN Date:	Oct 24, 2017		
Titl		Qualifica	tion	of Hefei Tong	fu I	Microelec	tronic Co. Ltd (HFT	F) a	s additional A	ssembly and
TIU	с.	Test Site	e for S	Select Device	S					
Cus	stome	r Conta	ct:	PCN Manager		Dept:	Quality Services			
Change Type:										
\boxtimes	Asser	mbly Site	Э			Design			Wafer Bump	o Site
	Asser	mbly Pro	cess			Data Sł	neet		Wafer Bump	Material
\boxtimes	Asser	mbly Mat	terial	S		Part nu	mber change		Wafer Bump	Process
Mechanical Specification		\boxtimes	Test Sit	e		Wafer Fab S	Site			
Packing/Shipping/Labeling			Test Pro	ocess		Wafer Fab N	laterials			
· ·							Wafer Fab F	rocess		

PCN Details

Description of Change:

Revision B is to announce the <u>retraction</u> of select devices in Group 2 of the Product Affected section. These devices will continue to be manufactured as prior and will not be subjected to the change described in this notification. Affected devices are identified with a **strikethrough** and are highlighted in yellow in the Product Affected Section.

Texas Instruments is pleased to announce the Qualification of Hefei Tongfu Microelectronic Co. Ltd (HFTF) as additional Assembly and Test Site for Select Devices listed in the "Product Affected" Section. Current assembly sites and Material differences are as follows.

Assembly Site	Assembly Site Origin	Assembly Country Code	Assembly Site City
NFME	NFM	CHN	Chongchuan
HFTF	HFT	CHN	Hefei

Material Differences:

Group 1 Device:

	NFME	HFTF
Mold compound	R-07	R-27

Group 2 Device:

	NFME	HFTF
Lead finish	NiPdAu	Matte Sn
Mold compound	R-07	R-27

Upon expiration of this PCN, TI will combine lead free solutions in a single *standard part number*, for example; <u>SN74LV1T00DBVR</u> – can ship with both Matte Sn and NiPdAu.

When available customers may specify NiPdAu finish by ordering the part with the G4 suffix, e.g. **SN74LV1T00DBVRG4**.

Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.

Reason for Change:

Continuity of supply.

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative): None

Anticipated impact on Material Declaration

No Impact to the Material DeclarationMaterial Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the <u>TI Eco-Info website</u> . There is no impact to the material meeting current regulatory compliance requirements with this PCN change.					
-	-	ntification resulting fro	m this PCN:		
Group 2 De					
Assembly S					
NFME	-	5 ()		ECAT: G4	
HFTF	Assembly	Site Origin (22L) AS	O: HFT	ECAT: G3	
MSL 2 /260C/ MSL 1 /235C/ OPT: ITEM: LBL: 5A	Laysia 20: /1 YEAR SEAL DT /UNLIM 03/29/04 (L)T0:1750	(Q) (31T) (4W) (4W) (2P) R (20L)	SN74LSO7NSR 2000 (D) 03 LOT: 3959047M TKY(1T) 752348 EV: (V) 003 CSO: SHE (21L) CCC ASO: MLA (31L) ACC	LA 33SI2 33317 D:USA	
SN74AHC1	fected: Group G02DBVR	SN74AHCT1G08DBVR	SN74LVC1G17	7DBVR	TL431BIDBVR
SN74AHC1	G02DBVT	SN74AHCT1G08DBVT	SN74LVC1G17	7DBVT	TL431BIDBVT
CNIZAALICA					
SN74AHC1	G04DBVR	SN74AHCT1G125DBVR	SN74LVC1G24	10DBVR	TL431CDBVR
		SN74AHCT1G125DBVR SN74AHCT1G125DBVT	SN74LVC1G24 SN74LVC1G24		
SN74AHC1	G04DBVT			10DBVT	TL431CDBVR
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Product Affected: Group 2					
SN74AHC1G00DBVR	SN74LV1T04DBVR	SN74LVC1G38DBVT	TLV431BQDBVT		
SN74AHC1G00DBVT	SN74LV1T08DBVR	SN74LVC1G66DBVR	TLVH431AIDBVR		
SN74AHC1G14DBVR	SN74LV1T125DBVR	SN74LVC1G66DBVT	TLVH431AIDBVT		
SN74AHC1G14DBVT	SN74LV1T126DBVR	TL331IDBVT	TLVH431AQDBVR		
SN74AHCT1G14DBVR	SN74LV1T32DBVR	TL331KDBVR	TLVH431AQDBVT		
SN74AHCT1G14DBVT	SN74LV1T34DBVR	TL431AQDBVR	TLVH431BCDBVR		
SN74CBT1G125DBVR	SN74LV1T86DBVR	TL431AQDBVT	TLVH431BCDBVT		
SN74CBT1G125DBVT	SN74LVC1G04DBVR	TL431BQDBVR	TLVH431BIDBVR		
SN74CBT1G384DBVR	SN74LVC1G04DBVT	TL431BQDBVT	TLVH431BIDBVT		
SN74CBT1G384DBVT	SN74LVC1G08DBVR	TL432AQDBVR	TLVH431BQDBVR		
SN74CBTD1G125DBVR	SN74LVC1G08DBVT	TL432AQDBVT	TLVH431BQDBVT		
SN74CBTD1G125DBVT	SN74LVC1G125DBVT	TL432BCDBVR	TLVH431CDBVR		
SN74CBTD1G384DBVR	SN74LVC1G132DBVR	TLV1391IDBVR	TLVH431CDBVT		
SN74CBTD1G384DBVT	SN74LVC1G132DBVT	TLV1391IDBVT	TLVH431IDBVR		
SN74CBTLV1G125DBVR	SN74LVC1G34DBVR	TLV431BIDBVR	TLVH431IDBVT		
SN74LV1T00DBVR	SN74LVC1G34DBVT	TLV431BIDBVT	TLVH431QDBVR		
SN74LV1T02DBVR	SN74LVC1G38DBVR	TLV431BQDBVR	TLVH431QDBVT		

Qualification Report

HFTF SOT: 5DBV Assy Site Qual

Approve Date 09-Jun-2017

Product Attributes

Attributes	Qual Device: SN74AHC1G14DBVR	Qual Device: SN74CBTLV1G125DBVR	Qual Device: SN74LVC1G17DBVR	Qual Device: TL431AIDBVR	Qual Device: TLVH431AIDBVR
Assembly Site	NFME	NFME	NFME	NFME	NFME
Package Family	SOT-23	SOT-23	SOT-23	SOT-23	SOT-23
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	SFAB	FFAB	FFAB	SFAB	SFAB
Wafer Process	EPIC1S2	ASL3C	50b10.13 BOPO	JI1	JI2

- QBS: Qual By Similarity

- Qual Device SN74AHC1G14DBVR is qualified at LEVEL1-260C

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: SN74AHC1G14DBVR	Qual Device: SN74CBTLV1G125DBVR	Qual Device: SN74LVC1G17DBVR
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0
AC	Autoclave 121C	144 Hours	3/231/0	3/231/0	3/231/0
FLAM	Flammability		3/15/0	-	-

	(IEC 695-2-2)				
FLAM	Flammability (UL 94V-0)		3/15/0	-	-
FLAM	Flammability (UL-1694)		3/15/0	-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0	3/231/0	3/231/0
HAST	Biased HAST, 130C/85%RH	192 Hours	3/231/0	3/231/0	3/231/0
HTOL	Life Test, 150C	300 Hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	400 Hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	600 Hours	3/231/0	3/231/0	3/231/0
LI	Lead Fatigue	Leads	3/66/0	-	-
LFA	Lead Finish Adhesion	Leads	3/45/0	-	-
LI	Lead Pull to Destruction	Leads	3/66/0	-	-
PD	Physical Dimensions		3/15/0	-	-
SD	Solderability	Pb	3/66/0	-	-
SD	Solderability	Pb Free	3/66/0	-	-
тс	Temperature Cycle, - 65/150C	500 Cycles	3/231/0	3/231/0	3/231/0
тс	Temperature Cycle, - 65/150C	750 Cycles	3/231/0	3/231/0	3/231/0
DSS	Die Shear	Die	3/30/0	3/30/0	3/30/0
WBP	Bond Pull	Wires	3/228/0	3/228/0	3/228/0
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0	3/228/0
MSL	Moisture Sensitivity Level	1-260C	3/36/0	-	-
SA	Salt Atmosphere	24 Hours	3/66/0	-	-
XR	X-Ray	(top side only)	3/15/0	3/15/0	3/15/0

Туре	Test Name / Condition	Duration	Qual Device: TL431AIDBVR	Qual Device: TLVH431AIDBVR
AC	Autoclave 121C	96 Hours	2/154/0	1/77/0
AC	Autoclave 121C	144 Hours	2/154/0	1/77/0
FLAM	Flammability (IEC 695-2-2)		-	-
FLAM	Flammability (UL 94V-0)		-	-
FLAM	Flammability (UL-1694)		-	-
HAST	Biased HAST, 130C/85%RH	96 Hours	2/154/0	1/77/0
HAST	Biased HAST, 130C/85%RH	192 Hours	2/154/0	1/77/0

HTOL	Life Test, 150C	300 Hours	2/154/0	1/77/0
HTSL	High Temp. Storage Bake, 170C	400 Hours	2/154/0	1/77/0
HTSL	High Temp. Storage Bake, 170C	600 Hours	2/154/0	1/77/0
LI	Lead Fatigue	Leads	2/44/0	1/22/0
LFA	Lead Finish Adhesion	Leads	2/30/0	1/15/0
LI	Lead Pull to Destruction	Leads	2/44/0	1/22/0
PD	Physical Dimensions		2/10/0	1/5/0
SD	Solderability	Pb	2/44/0	1/22/0
SD	Solderability	Pb Free	2/44/0	1/22/0
TC	Temperature Cycle, -65/150C	500 Cycles	2/154/0	1/77/0
TC	Temperature Cycle, -65/150C	750 Cycles	2/154/0	1/77/0
DSS	Die Shear	Die	2/20/0	1/10/0
WBP	Bond Pull	Wires	2/152/0	1/76/0
WBS	Ball Bond Shear	Wires	2/152/0	1/76/0
MSL	Moisture Sensitivity Level	1-260C	2/24/0	1/12/0
SA	Salt Atmosphere	24 Hours	-	-
XR	X-Ray	(top side only)	2/10/0	1/5/0

- 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.

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