

PCN# 20240613009.1 Qualification of DFAB and additional Assembly Site/BOM options for select devices Change Notification / Sample Request

Date: June 13, 2024 To: PREMIER FARNELL PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments (TI). The details of this change are on the following pages, and are in alignment with our standard product change notification (PCN) <u>process</u>.

TI requires acknowledgement of receipt of this notification within 30 days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within 30 days of this notification, given that samples are not built ahead of the change.

The Proposed First Ship date in this PCN letter is the earliest possible date that customers could receive the changed material. It is our commitment that the changed device will not ship before that date. If samples are requested within the 30 day sample request window, customers will still have 30-days to complete their evaluation regardless of the proposed 1st ship date.

This particular PCN is related to TI's multiyear transition plan for our two remaining factories with 150-millimeter production (DFAB in Dallas, Texas, and SFAB in Sherman, Texas). DFAB will remain open, but will focus on 200-mm production, with a smaller set of technologies. SFAB will close no earlier than 2024 and no later than 2025. As referenced in the "reason for change" below, these changes are part of our multiyear plan to transition these products to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the Change Management team. For sample requests or sample related questions, contact your local Field Sales Representative. As always, we thank you for your continued business.

Change Management Team SC Business Services

20240613009.1 Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LP311D	NULL
LT1009IDR	NULL
LT1013DP	NULL
SN74LS06DR	NULL
SN74LS08N	NULL
SN74LS47D	NULL
SN74LS47N	NULL

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

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Reason for	Change:		ual Data Sec			- f	150 million at a
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None							
impact on	Environme	ntal Rat	ings:				
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🔀 No Char	product ic	lentifica	tion resultin	g from th	is PCN:		
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Changes to Fab Site Information			Site Origin le (20L)	•	Country C (21L)	ode Chi	ip Site City
Changes to Fab Site Information Chip	on:		-	•		Ch	ip Site City Sherman
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Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City
TAI	TAI	TWN	Chung Ho, New Taipei City
FMX	MEX	MEX	Aguascalientes
TEXAS INSTRUMENTS MADE IN: Malaysia 20C: 20: MSL 2 /260C/1 YEAR SEA	29/04	oduct label): (1P) SN74LSO7NSR (Q) 2000 (D) 0 (31T) LOT: 3959047M (4W) TKY (1T) 752344 (P) (2P) REV: (2D) CSO: SHE (21L) CCI (22L) ASO: MLA (23L) ACI	ILA 83S12 53517 0:USA
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LM211D	SN74LS00NSRG4	SN74LS14DRE4	SN75468D
LM211DE4	SN74LS04D	SN74LS14DRG4	SN75468DE4
_M211DG4	SN74LS04DG4	SN74LS14N	SN75468DR
_M211DR	SN74LS04DR	SN74LS14NE4	SN75468N
_M211DRG4	SN74LS04DRG4	SN74LS14NSR	SN75468N-A
_M211P	SN74LS04N	SN74LS156NSR	SN75468NE4
M211PW	SN74LS04NE4	SN74LS164DR	SN75468NSR
_M211PWR	SN74LS04NSR	SN74LS164N	SN75468NSRG4
_M236D-2-5	SN74LS05D	SN74LS164NE4	SN75C185DWR
_M236DR-2-5	SN74LS05DR	SN74LS165ADR	TL026CD
_M311D	SN74LS05N	SN74LS166ADR	TL026CDR
_M311DR	SN74LS05NE4	SN74LS20N	TL026CPSR
_M311P	SN74LS06D	SN74LS20NE4	TL1431CD
_M311PSR	SN74LS06DBR	SN74LS21DR	TL1431CDR
_M311PW			TL1431CLP
LM311PWR SN74LS06DR		SN74LS247N	TL1431CLPME3
LM336BD-2-5 SN74LS06DRE4		SN74LS247NE4	TL1431CLPR
LM336BDR-2-5	SN74LS06N	SN74LS247NSR	TL7700CDGKR
LM336BLP-2-5 SN74LS06NE4		SN74LS266D	TL7700CDGKT
LM336BLPR-2-5 SN74LS06NS		SN74LS266DG4	TL7700CPS
LM336D-2-5 SN74LS06NSG4		SN74LS273DWR	TL7700CPSR
M336DR-2-5 SN74LS06NSR		SN74LS273N	TL7700CPW
_M336LP-2-5	SN74LS06NSRG4	SN74LS273NE4	TL7700CPWR
_M336LPR-2-5	SN74LS07D	SN74LS273NSR	TL7700CPWRG4
_P211D	SN74LS07DBR	SN74LS32DR	TL7702ACD
_P211DR	SN74LS07DBRG4	SN74LS32DRE4	TL7702ACDR
_P311D	SN74LS07DR	SN74LS32DRG4	TL7702AID
_P311DR	SN74LS07DRE4	SN74LS32N	TL7702AIDR
_P311P	SN74LS07N	SN74LS32NE4	TL7702BCD
_T1009CD	SN74LS07NSR	SN74LS32NSR	TL7702BCDR
LT1009CDR	SN74LS07NSRG4	SN74LS32NSRG4	TL7702BID

Texas Instruments Incorporated

TI Information - Selective Disclosure

PCN# 20240613009.1

LT1009CLPM SN74LS08DR SN74LS373N TL7705ACD LT1009CLPR SN74LS08DRE4 SN74LS373NSR TL7705ACDR LT1009ID SN74LS08N SN74LS373NSR TL7705ACPS LT1009IDR SN74LS08NSR SN74LS373NSR TL7705ACPSR LT1009ILP SN74LS08NSR SN74LS374N TL7705AID LT1009ILP SN74LS09DRE4 SN74LS374NR TL7705BCD LT1013CD SN74LS123D SN74LS377DWR TL7705BCDR LT1013CD SN74LS123D SN74LS47D TL7705BCR LT1013DD SN74LS123D SN74LS47D TL7705BIDR LT1013DD4 SN74LS123DR SN74LS47NR TL7705CPS-B LT1013DD4 SN74LS123DR SN74LS47NR TL7705CPS-B LT1013DD4 SN74LS123NR SN74LS47NR TL7705CPS-B LT1013DD5 SN74LS123NR SN74LS47NR TL7705CPS-B LT1013DD6 SN74LS123NR SN74LS47NR TL7705CPS-B LT1013DD7 SN74LS123NR SN74LS47NR TL7705CPS-R LT1013DD8 SN74LS123NRS64	LT1009CLP	SN74LS08D	SN74LS373DWR	TL7702BIDR
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LT1013DDG4SN74LS123DRG4SN74LS47NE4TL7705CPSR-BLT1013DDRSN74LS123NSN74LS47NSRTL7709ACDLT1013DIDSN74LS123NE4SN74LS540DBRTL7709ACDRLT1013DIDRSN74LS123NSRSN74LS540DWRTL7712ACDLT1013DIPSN74LS123NSRG4SN74LS540NWRTL7712ACDRLT1013DPSN74LS123NSRG4SN74LS540NSTL7712ACDRLT1014CNSN74LS136DRSN74LS540NSRTL7715ACDLT1014DDWSN74LS138DG4SN74LS541DBRTL7726CDRLT1014DDWRSN74LS138DRSN74LS541NWTL7726CDRLT1014DDWRSN74LS138DRE4SN74LS541NWTL7726IDRP82B715DRSN74LS138NE4SN74LS541NKTL7733BCDP82B715DRSN74LS139ADRSN74LS74ADRTL7733BIDP82B715PSN74LS139ANSN74LS74ADRTL7733BIDP82B715PE4SN74LS139ANSN74LS74ANRTPD4E002DRL2P82B96DGKRG4SN74LS145DRSN74LS74ANRATPD4E002DRL2P82B96DRSN74LS145DRE4SN74LS74ANRATPD5E003DPFRP82B96DRG4SN74LS145NKSN74LS74ANRG4TS321IDBVRP82B96PSN74LS145NRSN74LS74ANRG4TS321IDRVRP82B96PWRG4SN74LS145NSRSN74LS86ANRTS321IDRP82B96PWRG4SN74LS145NSRSN74LS86ANTS321IDR				
LT1013DDRSN74LS123NSN74LS47NSRTL7709ACDLT1013DIDSN74LS123NE4SN74LS540DBRTL7709ACDRLT1013DIDRSN74LS123NSRSN74LS540DWRTL7712ACDLT1013DIPSN74LS123NSRG4SN74LS540DWRTL7712ACDRLT1013DPSN74LS138DRSN74LS540NSTL7712ACDRLT1014CNSN74LS138DSN74LS540NSRTL7715ACDLT1014DDWSN74LS138DR4SN74LS541DBRTL7726CDLT1014DDWRSN74LS138DR4SN74LS541DWTL7726CDRLT1014DIWRSN74LS138DR44SN74LS541DWRTL7726IDLT1014DIWRSN74LS138DRE4SN74LS541NRTL7726IDRP82B715DRSN74LS138NBE4SN74LS541NRTL7733BCDP82B715DRSN74LS139ADRSN74LS74ADRTL7733BIDP82B715PFSN74LS139ANRE4SN74LS74ADRTL7733BIDRP82B96DGKRSN74LS139ANE4SN74LS74ANRTPD4E002DRL2P82B96DGKR4SN74LS145DRSN74LS74ANSRTPD5E003DPFRP82B96DRSN74LS145DRSN74LS74ANSRG4TS3211DBVRP82B96DRSN74LS145NRSN74LS6ADRTS3211DBVTP82B96PSN74LS145NSRSN74LS6ADRE4TS3211DBVTP82B96PWRSN74LS145NSRSN74LS6ADRE4TS3211DRP82B96PWRG4SN74LS145NSRSN74LS6ADRE4TS3211DRP82B96PWRG4SN74LS14DSN74LS6ADRE4TS3211DR				
LT1013DIDSN74LS123NE4SN74LS540DBRTL7709ACDRLT1013DIDRSN74LS123NSRSN74LS540DWRTL7712ACDLT1013DIPSN74LS123NSRG4SN74LS540NTL7712ACDRLT1013DPSN74LS136DRSN74LS540NSTL7712AIDRLT1014CNSN74LS138DSN74LS540NSRTL7712ACDLT1014DWSN74LS138DG4SN74LS541DBRTL7726CDLT1014DDWRSN74LS138DR4SN74LS541DWTL7726CDRLT1014DDWRSN74LS138DRE4SN74LS541DWRTL7726IDLT1014DIDWRSN74LS138NRE4SN74LS541NWRTL7726IDRP82B715DRSN74LS138NE4SN74LS541NE4TL7733BCDP82B715DRSN74LS139ADRSN74LS541NSRTL7733BCDRP82B715PSN74LS139ADRSN74LS74ADRTL7733BIDP82B715PSN74LS139ANK4SN74LS74ADRTL7733BIDRP82B96DGKRSN74LS145DRSN74LS74ANRTPD4E002DRL2P82B96DRSN74LS145DRSN74LS74ANSRTPD5E003DPFRP82B96DRSN74LS145NRSN74LS74ANSRG4TS3211DBVRP82B96PSN74LS145NRSN74LS6ADRTS3211DBVTP82B96PWRSN74LS145NSRSN74LS6ADRE4TS3211DRP82B96PWRG4SN74LS145NSRSN74LS6ADRE4TS3211DRP82B96PWRG4SN74LS145NSRSN74LS6ADRE4TS3211DR	LT1013DDG4	SN74LS123DRG4	SN74LS47NE4	TL7705CPSR-B
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P82B96DRG4 SN74LS145N SN74LS74ANSRG4 TS321IDBVR P82B96P SN74LS145NE4 SN74LS86ADR TS321IDBVT P82B96PWR SN74LS145NSR SN74LS86ADRE4 TS321IDR P82B96PWRG4 SN74LS145NSR SN74LS86ADRE4 TS321IDR	P82B96DGKRG4	SN74LS145DR	SN74LS74ANE4	TPD4E002DRLR
P82B96P SN74LS145NE4 SN74LS86ADR TS321IDBVT P82B96PWR SN74LS145NSR SN74LS86ADRE4 TS321IDR P82B96PWRG4 SN74LS14D SN74LS86AN TSS521DR	P82B96DR	SN74LS145DRE4	SN74LS74ANSR	TPD5E003DPFR
P82B96PWR SN74LS145NSR SN74LS86ADRE4 TS321IDR P82B96PWRG4 SN74LS14D SN74LS86AN TSS521DR	P82B96DRG4	SN74LS145N	SN74LS74ANSRG4	TS321IDBVR
P82B96PWRG4 SN74LS14D SN74LS86AN TSS521DR	P82B96P	SN74LS145NE4	SN74LS86ADR	TS321IDBVT
P82B96PWRG4 SN74LS14D SN74LS86AN TSS521DR	P82B96PWR	SN74LS145NSR		
	SN74LS00DR	SN74LS14DBR	SN74LS86ANE4	TSS721ADR
SN74LS00N SN74LS14DE4 SN74LS86ANSR				
SN74LS00NE4 SN74LS14DG4 SN75185DBR				
SN74LS00NSR SN74LS14DR SN75185DWR				
Group 2 Product Affected (Wafer fab, Assembly site from TAI to FMX):				
TL7705BQD TL7705BQDG4 TL7705BQDR TL7705BQDRG4				

For alternate parts with similar or improved performance, please visit the product page on <u>TI.com</u>

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: LT1013DIDR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	3/231/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	3/231/0
HTOL	B1	Life Test	150C	300 Hours	3/231/0
ELFR	B2	Early Life Failure Rate	150C	24 Hours	3/2400/0
ESD	E2	ESD CDM	-	500 Volts	1/3/0
ESD	E2	ESD HBM	-	1000 Volts	1/3/0
LU	E4	Latch-Up	Per JESD78	-	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0

QBS: Qual By Similarity

Qual Device LT1013DIDR is qualified at MSL1 260C

• Qual Device LT1013DIDR is qualified at MSL1 260C

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/

TI Qualification ID: R-CHG-2202-003

Qualification Results

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

Туре	Test Name / Condition	Duration	Qual Device: SN74L S07DR	QBS Process Reference: LT1013DIDR	QBS Package Reference: ULQ2003AQDRQ1
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0
uHAST	Unbiased HAST, 130C/85%RH	96 Hours	1/77/0	3/231/0	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	3/231/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	3/135/0
HTOL	Life Test, 150C	300 Hours	-	3/231/0	3/231/0
ELFR	Early Life Failure Rate, 150C	24 Hours	-	3/2400/0	-
HBM	ESD - HBM	2000 V	1/3/0	-	-
HBM	ESD - HBM	1000 V	1/3/0	1/3/0	-
CDM	ESD - CDM	1000 V	1/3/0	1/3/0	-
LU	Latch-up	(per JESD78)	1/3/0	1/3/0	-
ED	Electrical Distributions	Cpk>1.67 Room, Hot, & Cold Test	1/30/0	3/90/0	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	-

- Qual Devices qualified at LEVEL1-260CG: SN74LS07DR

- 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

TI Qualification ID: R-CHG-2202-009

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: <u>SN75C185DWR</u>
HAST	A2	Biased HAST	130C/85%RH	96 Hours	2/154/0
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0
тс	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	3/231/0
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	1/22/0
ESD	E2	ESD CDM	-	250 Volts	1/3/0
ESD	E2	ESD HBM	-	1000 Volts	1/3/0
LU	E4	Latch-Up	Per JESD78	-	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0

QBS: Qual By Similarity

• Qual Device SN75C185DWR is qualified at MSL1 260C

• Qual Device SN75C185DWR is qualified at MSL1 260C

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/

TI Qualification ID: R-CHG-2202-030

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