

PCN#20230627002.1 Qualification of new Fab site (RFAB) using qualified Process Technology, Die Revision and additional BOM elements for select devices

Change Notification / Sample Request

Date: June 27, 2023 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.

Texas Instruments 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.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date 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 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.

Sincerely,

Change Management Team SC Business Services

PCN#20230627002.1

20230627002.1 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

LM258ADR LP2951CM-3.3/NOPB OPA2330AID OPA2335AID OPA350UA

null null null null null

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

PCN NUI	mber:	20230627	7002.1						PC	N Date:	June 27,							
Title:							alified Pr	roces	s Tec	hnology,	2023 Die Revision and							
Custom	er Conta	al BOM ele			select dev ement Tea	1	Dept:	Our		ervices								
			Ľ.			ann	Depti	-		request	S							
-	ed 1 st Shi				2023			i	accep	ted unti								
_	*Sample requests received after Jul 27, 2023 will not be supported.																	
	Change Type:																	
Assembly Site Design Wafer Bump Material Assembly Process Data Sheet Wafer Bump Process																		
	embly Ma			Π	Part num		nange			afer Fab S								
		pecification	n		Test Site			\boxtimes		afer Fab N								
Pacl	king/Ship	ping/Labeli	ng		Test Proc	cess		\boxtimes	Wa	afer Fab F	Process							
					PCN	Deta	ils											
	tion of C																	
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•	affected s			10116		ments	TO Selec	leu	uevic									
produce																		
	Cu	irrent Fab	Site					Add	itio na	I Fab Sit	te							
Currer Sit		Process	5		Vafer Imeter		ditional Ib Site		Proc	ess	Wafer Diameter							
CF/		JI3)0 mm		RFAB		ТІ	B	300 mm							
SH-B		JI1			50 mm													
The die v	was also (changed as	a resu	ilt o	of the proc	ess ch	ange.											
Additiona	al BOM el	ements for	the de	evic	es listed b	elow a	s follows	:										
Additional BOM elements for the devices listed below as follows:																		
	N	/hat			C	Currer	nt			What Current Additional								
		/hat I finish					-											
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	Lead Mount C	l finish Compound			۲ 4	NiPdA	u 58			Matt 421	te Sn 1470							
	Lead Mount C	l finish			۲ 4	NiPdA	u 58			Matt 421	te Sn							
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		mental ratings following im e no changes to the associa		
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🛛 No Change	🛛 No Change	🛛 No Change	🛛 No C	Change
<u> </u>	t identification resultir	ng from this PCN:		
Fab Site Informati				
Chip Site	Chip Site Origir Code (20L)	Chip Site Country Co	de (21L)	Chip Site City
SH-BIP-1	SHE	USA		Sherman
CFAB	CU3	CHN		Chengdu
RFAB	RFB	USA		Richa rdso n
	ipping label (not actua	G4 =	NiPdAu	1
TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 2Q: MSL 2 /260C/1 YEAF MSL 1 /235C/UNLIM OPT: ITEM: LBL: 5A (L)T	G4 SEAL DT 03/29/04 0:1750	(1P) SN74LS07 (Q) 2000 (31T)L0T: 395 (4W) TKY(1T) (P) (2P) REV: (20L) CS0: SHE	Matte Sn /NSR (D) 033 59047MLA	SI2 317 35A
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MADE IN: Malaysia 20C: 20 MSL 2/260C/1 YEAR MSL 1/235C/UNLIM OPT: ITEM: LBL: 5A (L)T Product Affected: CD40107BM CD40107BM96 LF353DR LM211D LM211DR LM2903BIDR LM2903DR LM2903DR-S	SEAL DT 03/29/04 39 0:1750 (BOM elements only) OPA2317IDR OPA2330AID OPA2333AID OPA2335AID OPA2335AIDR OPA2342UA	(1P) SN74LS07 (Q) 2000 (31T)LOT: 395 (4W) TKY (1T) (P) (2P) REV: ((20L) CSO: SHE (22L) ASO: MLA (OPA380AIDR OPA704UA OPA704UA/2K5 OPA735AID OPA735AID OPA735AIDR OPA862IDR P82B96DR PCA9517DR	Matte Sn (D) 033 59047ML/ 7523483 V) 00333 21L) CC0:U 23L) AC0:I TLV6742 TLV9022 TLV9022 TLV9022 TLV9042 TLV9042 TLV9052 TLV9062	SI2 HIDR IDR DR DR IDR IDR IDR IDR ID
MADE IN: Malaysia 2DC: 2Q: MSL 2/260C/1 YEAR MSL 1/235C/UNLIM OPT: ITEM: LBL: 5A (L)T Product Affected: CD40107BM CD40107BM CD40107BM96 LF353DR LM211D LM211DR LM2903BIDR LM2903DR LM2903DR-S LM2904LVIDR	SEAL DT 03/29/04 39 0:1750 (BOM elements only) OPA2317IDR OPA2330AID OPA2330AID OPA2330AID OPA2330AID OPA2333AID OPA2335AID OPA2335AID OPA2335AID OPA2342UA	(1P) SN74LS07 (Q) 2000 (31T)LOT: 395 (4W) TKY (1T) (P) (2P) REV: ((20L) CS0: SHE ((22L) AS0: MLA (OPA380AIDR OPA704UA/2K5 OPA704UA/2K5 OPA735AID OPA735AID OPA735AID OPA735AIDR OPA862IDR P82B96DR PCA9517DR RC4558DR	Matte Sn (D) 033 59047MLA 7523483 V) 00333 21L) CC0:U 23L) AC0:I TLV6002 TLV9002 TLV9002 TLV9032 TLV9032 TLV9052 TLV9052 TLV9052 TLV9052 TLV9052	SI2 HIDR IDR IDR IDR IDR IDR IDR IDR
MADE IN: Malaysia 20C: 20 MSL 2/260C/1 YEAR MSL 1/235C/UNLIM OPT: ITEM: LBL: 5A (L)T Product Affected: CD40107BM CD40107BM96 LF353DR LM211D LM211DR LM2903BIDR LM2903DR LM2903DR-S LM2904LVIDR LM293ADR	SEAL DT 03/29/04 39 0:1750 (BOM elements only) OPA2317IDR OPA2330AID OPA2333AID OPA2335AID OPA2342UA OPA2342UA/2K5 OPA2343UA	(1P) SN74LS07 (Q) 2000 (31T)LOT: 395 (4W) TKY (1T) (P) (2P) REV: ((20L) CSO: SHE (22L) ASO: MLA (OPA380AIDR OPA704UA OPA704UA/2K5 OPA735AID OPA735AID OPA735AID OPA735AIDR OPA862IDR P82B96DR PCA9517DR RC4558DR RC4558DR	Matte Sn (D) 033 59047ML/ 7523483 (D) 033 59047ML/ 7523483 (D) 00333 21L) CC0:U 23L) AC0:I 23L) AC0:I 7LV6742 TLV9022 TLV9022 TLV9022 TLV9042 TLV9042 TLV9052 TLV9052 TLV9052 TLV9052 TLV9052	SI2 HIDR IDR IDR IDR IDR IDR IDR IDR IDR IDR

PCN#20230627002.1

LM358LVIDR	OPA2348AID	SN293ADR	TLV9362IDR
LM393ADR	OPA2348AIDR	SN293DR	TMP1075DR
LM393BIDR	OPA2353UA/2K5	SN393DR	TMP175AID
LM393DR	OPA2356AID	SN65EPT23D	TMP175AIDR
LM393LVDR	OPA2356AIDR	SN65EPT23DR	TMP275AID
LM5109BMAX/NOPB	OPA2375IDR	SN74CBT3306DR	TMP275AIDR
LM833D	OPA2607IDR	SN74CBTD3306DR	TMP75AID
LM833DR	OPA2743UA	THP210DR	TMP75AIDR
LMV358AIDR	OPA2743UA/2K5	THS4131IDR	TPS3707-30DR
LMV358ID	OPA2990IDR	THS4521ID	TPS76633DR
LMV358IDR	OPA2991IDR	THS4521IDR	TS12A4517DR
LMV393IDR	OPA2992IDR	THS7314D	TSV912AIDR
LP2951ACM-3.0/NOPB	OPA317ID	THS7314DR	UCC27324DR
LP2951CM/NOPB	OPA317IDR	THS7315D	UCC27424DR
LP2951CM-3.0/NOPB	OPA333AID	THS7315DR	UCC27523DR
LP2951CM-3.3/NOPB	OPA333AIDR	THS7316D	UCC27525D
LP2951CMX/E7002608	OPA335AID	THS7316DR	UCC27528D
LP2951CMX/J7000697	OPA335AIDR	THVD1400DR	UCC27614DR
LP2951CMX/NAK2	OPA338UA	THVD1406DR	UCC27624DR
LP2951CMX/NOPB	OPA343UA	THVD1420DR	UCC28C50DR
LP2951CMX-3.0/NOPB	OPA343UA/2K5	THVD1426DR	UCC28C51DR
LP2951CMX-3.3/NOPB	OPA344UA	THVD1500DR	UCC28C52DR
MCP6292IDR	OPA344UA/2K5	THVD1505DR	UCC28C53DR
NA 555DR	OPA345UA	THVD1520DR	UCC28C54DR
NE555DR	OPA347UA	TL071HIDR	UCC28C55DR
OPA1632DR	OPA347UA/2K5	TL072CDR	UCC28C56HDR
OPA1652AID	OPA348AID	TL072HIDR	UCC28C56LDR
OPA1652AIDR	OPA348AIDR	TL081HIDR	UCC28C57HDR
OPA1677DR	OPA350UA	TL082CDR	UCC28C57LDR
OPA1678IDR	OPA350UA/2K5	TL082HIDR	UCC28C58DR
OPA1692ID	OPA353UA	TL3472CDR	UCC28C59DR
OPA1692IDR	OPA353UA/2K5	TL3472IDR	UCC38C50DR
OPA2186DR	OPA355UA	TL7702ACD	UCC38C51DR
OPA2301AID	OPA355UA/2K5	TL7702ACDR	UCC38C52DR
OPA2301AIDR	OPA356AID	TLV07IDR	UCC38C53DR
OPA2310IDR	OPA356AIDR	TLV1812DR	UCC38C54DR
OPA2314AID	OPA374AID	TLV1822DR	UCC38C55DR
	OPA374AIDR	TLV2186IDR	
OPA2314AIDR			

di dup 2 Device list (wa		process technology and born elements				
LM258ADR	LM2904DR	LM358BIDR	SN2904DR			
LM258DR	LM2904DR-JF	LM358DR	SN358DR			
LM2904BAIDR	LM358ADR	LM358DR-JF				

LM2904BIDR LM358BAIDR MC1458DR

TI Information Selective Disclosure

Qualification Report

MLA SOIC 8D Hyde 4225917 Bare Cu Roughen Leadframe with Ag Ring and Matte Sn Post Mold Plating (Commercial) Approve Date 26-MAY -2023

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: <u>RC4580IDR</u>	Qual Device: <u>LM358BIDR</u>	Qual Device: <u>TL082HIDR</u>
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	3/231/0	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	3/231/0	3/231/0
тс	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	170C	420 Hours	3/231/0	3/231/0	3/231/0
WBS	C1	Ball Shear	76 balls, 3 units min	Wires	3/228/0	3/228/0	3/228/0
WBP	C2	Bond Pull	76 Wires, 3 units min	Wires	3/228/0	3/228/0	3/228/0
SD	С3	PB Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB Solder;	-	-	3/66/0	-
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder;	-	-	3/66/0	-
PD	C4	Physical Dimensions	(per mechanical drawing)	-	3/15/0	3/15/0	3/15/0
FTY	E6	Final Test Yield	-	-	3/3/0	3/3/0	3/3/0

QBS: Qual By Similarity

• Qual Device RC4580IDR is qualified at MSL1 260C

• Qual Device LM358BIDR is qualified at MSL1 260C

Qual Device TL082HIDR 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-2303-081

PCN#20230627002.1

Qualification Report

LM358B TIB FMX with HYDE LF Qualification Approve Date 16-SEPTEMBER-2022

Qualification Results

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

Туре	#	Test Name	Condition	Duration	Qual Device: <u>LM358BIDR</u>	QBS Process Reference: LM2902BQPWRQ1	QBS Package Reference: <u>CD4093BQM96Q1</u>	QBS Package Reference: <u>TLC5916QDRQ1</u>	QBS Package Reference: <u>LM2903BIDR</u>
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	3/231/0	-	-	-
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	3/231/0	3/231/0	3/231/0
UHAST	A3	Unbiased HAST	110C/85%RH	264 Hours	-	3/231/0	-	-	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	3/231/0	-	-	-	-
тс	A4	Temperature Cycle	-65C/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	3/231/0	-	-	-
HTSL	A6	High Temperature Storage Life	170C	420 Hours	1/77/0	-	-	-	-
HTOL	B1	Life Test	150C	408 Hours	-	3/231/0	-	-	-
ELFR	B2	Early Life Failure Rate	125C	48 Hours	-	3/2400/0	-	-	-
WBS	C1	Ball Shear	76 balls, 3 units min	Wires	2/6/0	-	-	-	-
WBP	C2	Bond Pull	76 Wires, 3 units min	Wires	2/6/0	-	-	-	-

Туре	#	Test Name	Condition	Duration	Qual Device: <u>LM358BIDR</u>	QBS Process Reference: <u>LM2902BQPWRQ1</u>	QBS Package Reference: <u>CD4093BQM96Q1</u>	QBS Package Reference: <u>TLC5916QDRQ1</u>	QBS Package Reference: <u>LM2903BIDR</u>
SD	C3	PB-Free Solderability	Precondition w.155C Dry Bake (4 hrs +/- 15 minutes)	-	-	-	3/66/0	3/66/0	-
PD	C4	Physical Dimensions	(per mechanical drawing)	-	-	3/30/0	3/30/0	3/30/0	3/15/0
ESD	E2	ESD CDM	-	1500 Volts	1/3/0	3/9/0	-	-	-
ESD	E2	ESD HBM	-	2000 Volts	1/3/0	3/9/0	-	-	-
LU	E4	Latch-Up	Per JESD78	-	1/3/0	3/18/0	-	-	-
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	3/90/0	-	-	-
FTY	E6	Final Test Yield	-	-	1/Pass	-	-	-	-

• QBS: Qual By Similarity

• Qual Device LM358BIDR 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-2207-058

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