	umber:			27002		-			PCN D			June 07, 2021		
itle:			1				ional Asse					Devices		
	ner Conta	act:	PCN	Mana	ger		Dept:	Qua	ity Serv	/ice	es			
	e Type:				r						1 1			
	sembly Sit						Design					Wafer Bump Site		
Assembly Process Assembly Materials				Data Sheet					_	Wafer Bump Materia				
							Part numbe	er chang	je		_	Wafer Bump Process	<u> </u>	
	echanical S						Test Site				_	Wafer Fab Site		
🛛 🛛 Pa	cking/Ship	ping	/Labe	aing			Test Proces	S				Wafer Fab Materials		
												Wafer Fab Process		
Docari	ntion of (	han	<b>a</b> 01				PCN De	talls						
	ption of C			alact	dovi		in the Proc	Huct Aff	octod Sa	acti	on	(in bold characters	with	
												ntly added and not	VVICII	
	d by this c				,									
												sia as an Additional		
	nces are as			l devi	ces	SHO	wit below.	Curren	L assem	DIY	' SI	te and Material		
unicici		5 1011	5005.					- <b>F</b>						
							TIEM		AP1			MLA		
	Mount	Com	poun	d		8	075531	SID#	101375	28	1	4147858		
	Mold C						096859	SID#	101323	397	7	4211880		
	Lead F						latte Sn		atte Sn			NiPdAu		
	##Bor	nd wi	re, di	amet	er	Au	, 1.3 mils	Au,	1.3 mi	ls		Cu, 1.3 mils		
Upon e	xpiry of th	nis PC	CN TI	will c	omb	ine		olutions	s in a si			s <b>tandard part num</b> Matte Sn and NiPdAu		
Examp	– Cu			der fo ty per			units of L№	12901M,	NOPB v	vith	า 2	500 units SPQ (Star	idaro	
	– TI		I. II. III.	3 R 3 R 2 R	eels eels eels	of N of N of N	order in on liPdAu fini 1atte Sn fi 1atte Sn ai	sh. nish nd 1 ree	el of NiP	dA	u f	inish.		
Deses	n for Cha		IV.	2 R	eels	of N	liPdAu and	1 1 reel	of Matte	e Si	n f	inish.		
	n for Cha													
	uity of Sup				-	_					_			
	pated imp	bact	on F	orm,	Fit,	Fur	iction, Qu	ality o	<sup>•</sup> Reliat	oili	ty	(positive / negati	ve):	
Antici	• • • • • •													
Antici None	-				al D	ecla	aration							
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Antici None Antici N	<b>pated imp</b> o Impact t	o the	ć	ateri	Mat	eria	l Declarati					ent reports are drive	n	
Antici None Antici N	pated imp	o the	ć		Mat fror	eria n pi	l Declarati oduction o	data and	l will be	av	/ail	able following the	n	
Antici None Antici N	<b>pated imp</b> o Impact t	o the	ć		Mat fror pro	eria n pi duci	l Declarati oduction c tion releas	data and e. Upor	l will be n produ	av ctic	vail on	able following the release the revised	n	
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Assembly Site	Assembly Site Origin (22L	.) Assembly Country Code (23L	.) Assembly City		
TIEM	CU6	MYS	Melaka		
AP1	AKR	PHL	Cupang, Muntinlupa Cit		
TI Malaysia	MLA	MYS	Kuala Lumpur		
TEXAS INSTRUMENTS MADE IN: Malaysia 2DC: 20: MSL 2 /260C/1 YEAR MSL 1 /235C/UNLIM OPT: ITEM:		product label)       G         (1P) \$N74L\$07N\$R         (Q) 2000       (D) 0336         (31T) LOT: 3959047MLA         (4W) TKY (1T) 752348333         (P)         (2P) REV:       (V) 003331         (2DL) CS0: SHE       (21L) CC0:US         (22L) AS0: MLA       (23L) AC0: M	512 17 54		
roduct Affected	<b>d:</b>				
LM2674M-12/NOP		LM5101AMX/NOP	B LMV844MAX/NOPB		
_M2674M-3.3/NOF	B ADJ/J7002911 PB LM2675MX-ADJ/	NOPB LM5101AMX/S7003	027 LP2951ACM-3.0/NOP		
_M2674M-3.3/NOF _M2674M-5.0/NOF	B         ADJ/J7002911           vB         LM2675MX-ADJ/           vB         LM2901M/NOPB	NOPB LM5101AMX/S7003 LM5101BMA/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP	NOPB LM5101AMX/S7003 LM5101BMA/NOPB B LM5101BMAX/NOPE	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO _M2674MX-12/NO _M2674MX-3.3/NC	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           PB         LM2902MX/E700	Image: Normalized for the state of the s	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX-		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO _M2674MX-12/NO _M2674MX-3.3/NC _M2674MX-5.0/NC	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           DPB         LM2902MX/E700           DPB         LM2902MX/E700	NOPB         LM5101AMX/S7003           LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MAX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO _M2674MX-12/NO _M2674MX-3.3/NC _M2674MX-5.0/NC	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           OPB         LM2902MX/E700           OPB         LM2902MX/NOP           LM2902MX/NOP         LM2902MX/NOP	NOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMAX/NOPB           B         LM5101CMA/NOPB           D2681         LM5101CMAX/NOPE           2         LM5101M/NOPB           B         LM5101MX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP B LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO _M2674MX-12/NO _M2674MX-3.3/NC _M2674MX-5.0/NC _M2674MX-ADJ/NO _M2675M-12/NOP	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2902MX/NOP           PB         LM2902MX/E700           OPB         LM2902MX/E700           OPB         LM2902MX/NOP           LM2902MX/NAK         DPB           DPB         LM2902MX/NOP           LM2902MX/NOP         LM2902MX/NOP	NOPB         LM5101AMX/S7003           LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           LM5101MX/NOPB         LM5101MX/NOPB           LM5101MX/NOPB         LM5101MX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB		
_M2674M-3.3/NOF _M2674M-5.0/NOF _M2674M-ADJ/NO _M2674MX-12/NO _M2674MX-3.3/NC _M2674MX-5.0/NC _M2674MX-ADJ/NG _M2675M-12/NOF	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           DPB         LM2902MX/E700           DPB         LM2902MX/E700           DPB         LM2902MX/NOP           B         LM2902MX/NOP           B         LM2902MX/NOP           B         LM324AM/NOPB	NOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CM-3.3/NOPB		
M2674M-3.3/NOF M2674M-5.0/NOF M2674M-ADJ/NO M2674MX-12/NO M2674MX-3.3/NO M2674MX-5.0/NO M2674MX-ADJ/NO M2675M-12/NOP M2675M-3.3/NOF	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           DPB         LM2902MX/E700           DPB         LM2902MX/NAK           DPB         LM2902MX/NAK           DPB         LM2902MX/NOP           B         LM2902MX/NOP           PB         LM2902MX/NOP           B         LM324AM/NOPB           PB         LM324AMX/NOP	NOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMAX/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB           B         LM5109AMA/NOPB           B         LM5109AMA/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CM/NOPB LP2951CMX-3.0/NOP		
M2674M-3.3/NOF M2674M-5.0/NOF M2674M-ADJ/NO M2674MX-12/NO M2674MX-3.3/NO M2674MX-3.3/NOF M2674MX-ADJ/NO M2675M-12/NOF M2675M-3.3/NOF M2675M-5.0/NOF	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           PB         LM2902MX/E700           OPB         LM2902MX/E700           OPB         LM2902MX/NOP           B         LM2902MX/NOP           B         LM2902MX/NOP           B         LM2902MX/NOP           B         LM324AM/NOPB           PB         LM324AMX/NOP           PB         LM324MX/NOPB	YNOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101MX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB           LM5109AMAX/NOPB         LM5109BMAX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CM/NOPB LP2951CMX-3.0/NOP		
M2674M-3.3/NOF M2674M-5.0/NOF M2674M-ADJ/NO M2674MX-12/NO M2674MX-3.3/NO M2674MX-5.0/NO M2674MX-ADJ/NO M2675M-12/NOP M2675M-3.3/NOF M2675M-5.0/NOF M2675M-ADJ/NO M2675M-ADJ/NO	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           DPB         LM2902MX/E700           DPB         LM2902MX/E700           DPB         LM2902MX/NAK           DPB         LM2902MX/NOP           B         LM2902MX/NOP           B         LM324AM/NOPB           PB         LM324AMX/NOP           PB         LM324MX/NOPB           PB         LM324MX/NOPB           PB         LM324MX/NOPB           PB         LM324MX/NOPB	YNOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMAX/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB           B         LM5109AMA/NOPB           LM5109BMA/NOPB         LM5109BMA/NOPB           LM5109BMAX/NOPB         LM5109BMAX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM-3.3/NOP LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CMX-3.0/NOP LP2951CMX-3.0/NOP LP2951CMX-3.3/NOP		
M2674M-3.3/NOF M2674M-5.0/NOF M2674M-ADJ/NO M2674MX-12/NO M2674MX-3.3/NO M2674MX-3.3/NOF M2675M-12/NOP M2675M-3.3/NOF M2675M-5.0/NOF M2675M-5.0/NOF M2675M-ADJ/NO M2675MX-12/NO M2675MX-12/NO	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2901MX/NOP           PB         LM2902MX/E700           PB         LM2902MX/E700           PB         LM2902MX/NOP           PB         LM2902MX/NOP           PB         LM2902MX/NOP           PB         LM2902MX/NOP           PB         LM324AM/NOPB           PB         LM324AMX/NOP           PB         LM324MX/NOPB           PB         LM324MX/NOPB           PB         LM324MX/NOPB           PB         LM339AM/NOPB           PB         LM339AMX/NOP	YNOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB           B         LM5109AMAX/NOPB           B         LM5109BMAX/NOPB           LM5109BMAX/NOPB         LM5109BMAX/NOPB           LM5109MAX/NOPB         LM5109MAX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CMX-3.3/NOP LP2951CMX-3.3/NOP LP2951CMX/E700260 LP2951CMX/J700069		
LM2674M-12/NOP LM2674M-3.3/NOF LM2674M-5.0/NOF LM2674M-ADJ/NO LM2674MX-12/NO LM2674MX-3.3/NO LM2674MX-3.3/NOF LM2675M-12/NOP LM2675M-3.3/NOF LM2675M-5.0/NOF LM2675M-3.3/NOF LM2675MX-3.3/NOF LM2675MX-3.3/NA LM2675MX-3.3/NOF	B         ADJ/J7002911           PB         LM2675MX-ADJ/           PB         LM2901M/NOPB           PB         LM2901MX/NOP           PB         LM2902M/NOPB           PB         LM2902MX/E700           PB         LM2902MX/E700           PB         LM2902MX/NOP           PB         LM2902MX/NOP           PB         LM2902MX/NOP           PB         LM324AM/NOPB           PB         LM324AMX/NOP           PB         LM324AMX/NOPB           PB         LM324AMX/NOPB           PB         LM324AMX/NOPB           PB         LM339AM/NOPB           O02948         LM339AMX/NOP           K2         LM339M/NOPB	YNOPB         LM5101AMX/S7003           LM5101BMA/NOPB         LM5101BMA/NOPB           B         LM5101BMAX/NOPB           LM5101CMA/NOPB         LM5101CMAX/NOPB           D2681         LM5101CMAX/NOPB           2         LM5101M/NOPB           B         LM5101MX/NOPB           B         LM5101MX/NOPB           B         LM5109AMA/NOPB           B         LM5109BMA/NOPB           LM5109BMA/NOPB         LM5109BMAX/NOPB           LM5109MAX/NOPB         LM5109MAX/NOPB           B         LM5109MAX/NOPB	027 LP2951ACM-3.0/NOP LP2951ACM-3.3/NOP LP2951ACM/NOPB LP2951ACMX- 3.0/NOPB LP2951ACMX- 3.3/NOPB LP2951ACMX/NOPB LP2951CM-3.0/NOPB LP2951CM-3.3/NOPB LP2951CM/NOPB LP2951CMX-3.0/NOP		



TI Information Selective Disclosure

## **Qualification Report**

## Approve Date 16-Feb-2021

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

Туре	Test Name / Condition	Duration	Qual Device: LM2675MXADHH <u>NC</u>	Qual Device: LM5101AMXSF0 <u>S4</u>	Qual Device: LMV844MAX/NO <u>PB</u>	QBS Package Reference: <u>CD4081BM96</u>	QBS Package Reference: LM393DR ROUG <u>H LDF</u>	QBS Package Reference: LP2951ACMX- <u>3.3/S2</u>	QBS Package Reference: TCA9546ADR R <u>LF</u>
AC	Autoclave 121C	96 Hours	3/231/0	-	3/231/0	3/228/0	3/231/0	1/77/0	3/231/0
ED	Auto Electrical Distributions	Cpk>1.67 Room, hot, and cold test	-	-	-	-	-	1/30/0	-
ED	Electrical Characterizatio n, side by side	-	1/30/0	1/30/0	1/30/0	-	-	-	-
FLAM	Flammability (UL 94V-0)	-	-	-	-	-	-	-	3/15/0
HAST	Biased HAST, 130C/85%RH	192 Hours (for info)	-	-	-	-	-	3/231/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	-	-	-	3/231/0	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	-	-	1/77/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	-	3/231/0	-	3/231/0
LI	Lead Fatigue	Leads	-	-	-	3/66/0	3/66/0	-	-
LI	Lead Pull	Leads	-	-	-	3/126/0	3/72/0	-	-
PD	Physical Dimensions	(per mechanical drawing)	-	-	-	3/15/0	3/90/0	1/30/0	-
SD	Solderability	Pb Free	-	-	-	3/66/0	-	-	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	-	3/231/0	3/231/0	3/231/0	1/77/0	3/231/0
VM	Visual / Mechanical	-	3/984/0	3/984/0	3/984/0	3/984/0	3/984/0	3/984/0	3/984/0
WBP	Bond Pull	Wires	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	3/90/0	3/228/0
WBS	Ball Bond Shear	Wires	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	3/90/0	3/228/0

- QBS: Qual By Similarity

- Qual Devices LM2675MXADHHNC, LM5101AMXSF0S4 and LMV844MAX/NOPB are qualified at LEVEL1-260C

- Quai Devices Link20/SMXADHINC, LMSTUTAMXSFUS4 and LMV844MAX/NOPB are qualified at LEVEL1-260C
 - 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 HTOL options based on an activation energy of 0.7eV: 150C/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 Tt's external Web site: http://www.ti.com/
 Green/Pb-free Status:
 Outling the Pic-Free(SMT) and Green

Qualified Pb-Free(SMT) and Green

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