PCN Number: 20220314005.1A					PCN			ate:	June 08,	
									2022	
	Title: Qualification of a new Lead finish for select devices									
Customer Contact: PCN Manager					Dept:	Quality Services		- 1		
Proposed 1 st Ship Date: June 1						accep	ted	ed until: July 08, 2022*		
-	-	ts rece	ived after	· Jul	y 8, 20	22 will not be sup	por	ted.		
Change										
	embly Sit				Design			Wafer Bump Site		
	embly Pro				Data S			Wafer Bump Material		
	embly Ma					mber change				p Process
Mec	hanical S	pecifica	tion		Test Site		Wafer Fab Site			
Pack	king/Ship	ping/La	beling		Test Pr	ocess		Wafer Fab Materials		Materials
								Wafer	Fab F	Process
					PCN	Details				
Descrip	tion of C	hange:								
Revision A is to announce the <u>addition</u> of TPS259470LRPWR device that was not included on the original PCN notification. This new device is highlighted and bolded in the device list below. The expected first shipment date will be 90 days from this notice (Sept 08, 2022) for the newly added device only. The proposed 1 st ship date of June 17, 2022 still applies for the original set of devices. This PCN is to inform of an alternate lead finish qualification for the devices in the product affected section as follows:										
section a	s follows	:		e iea	a rinisn	qualification for the	e dev	ices in	the p	roduct affected
section a		: Vhat		lead	a finisn	Current	e dev	rices in	the p	
section a	V			lead	a rinisn	·	e dev			N
Upon ex in a sing and NiPo Example	piry of thi le standa lAu. : - Cus Pac	that dinish is PCN, ard par can sat I. III. IV.	there will be the recorder for 75 tity per Recorder states as the second	pe a feature for the second of	transition examp units of order in NiPdAu fordete Sratte S	Current NiPdAu On period where TI the; TPS22998RYZ TPS22998RYZR with one of the following finish.	will on R – of the control of the co	combinican ship 500 uni ys.	Nev Matte e lead o with	free solutions both Matte Sn
Upon ex in a sing and NiPo Example	piry of thi le <u>standa</u> lAu. : - Cus Pac	that dinish is PCN, ard par can sat I. III. IV.	there will be the recorder for 75 tity per Recorder states as the second	pe a feature for the second of	transition examp units of order in NiPdAu fordete Sratte S	Current NiPdAu on period where TI le; TPS22998RYZ TPS22998RYZR with one of the following finish. In finish and 1 reel of NiPd.	will on R – of the control of the co	combinican ship 500 uni ys.	Nev Matte e lead o with	free solutions both Matte Sn
Upon exing and NiPo Example Reason Continuit	piry of this le standal Au. - Cus Pace - TI	that dinish dis PCN, ard par distormer of k Quant II. III. IV.	there will be the number order for 7! tity per Red 3 Reels 2 Reels 2 Reels	pe a formation of the second o	transition examp units of order in NiPdAu f Matte Sr Matte Sr NiPdAu a	Current NiPdAu on period where TI le; TPS22998RYZ TPS22998RYZR with one of the following finish. In finish and 1 reel of NiPdand 1 reel of Matters	will on R - of the control of the co	combing can ship 600 uni ys. nish.	New Matte e lead o with	free solutions both Matte Sn (Standard
Upon eximal and NiPo Example Reason Continuit Anticipa	piry of this le standal Au. - Cus Pace - TI	that dinish dis PCN, ard par distormer of k Quant II. III. IV.	there will be the number order for 7! tity per Red 3 Reels 2 Reels 2 Reels	pe a formation of the second o	transition examp units of order in NiPdAu f Matte Sr Matte Sr NiPdAu a	Current NiPdAu on period where TI le; TPS22998RYZ TPS22998RYZR with one of the following finish. In finish and 1 reel of NiPd.	will on R - of the control of the co	combing can ship 600 uni ys. nish.	New Matte e lead o with	free solutions both Matte Sn (Standard
Upon exing and NiPo Example Reason Continuit	piry of this le standal Au. - Cus Pace - TI	that dinish dis PCN, ard par distormer of k Quant II. III. IV.	there will be the number order for 7! tity per Red 3 Reels 2 Reels 2 Reels	pe a formation of the second o	transition examp units of order in NiPdAu f Matte Sr Matte Sr NiPdAu a	Current NiPdAu on period where TI le; TPS22998RYZ TPS22998RYZR with one of the following finish. In finish and 1 reel of NiPdand 1 reel of Matters	will on R - of the control of the co	combing can ship 600 uni ys. nish.	New Matte e lead o with	free solutions both Matte Sn (Standard

Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

RoHS	REACH	Green Status	IEC 62474
	🛮 No Change	No Change	☑ No Change

Changes to product identification resulting from this PCN:

Product Affected:

PQ25620RYKR	PTPS25974LRPWR	TPS259461ARPWR	XPS62867RQYR
PQ25620RYKT	PTPS259810ARPWR	TPS259470LRPWR	XPS628691CRQYR
PQ25628RYKT	PTPS25985Z2RQPT	TPS25970ARPWR	XSD93501ERPRT
PQ25629RYKT	PTPS51384RJNR	TPS25970LRPWR	XSD93501RPRR
PQ25672RQMR	PTPS51386RJNR	TPS25972ARPWR	XSD93501RPRT
PQ25792HRLRQMR	PTPS5436DCRPYR	TPS25972LRPWR	XSD93501RXHT
PQ25792HRLRQMT	PTPS5436TCRPYR	TPS25974ARPWR	XSN2008029RWZR
PQ25792HRRQMR	PTPS55288RPMT	TPS25974LRPWR	XSN2008030RWZR
PQ25792HRRQMT	SN2001075RWZR	TPS53830RWZR	XTPS53830RWZT
PQ25792RQMR	SN2001075RWZT	TPS53830RWZT	XTPS53832RWZT
PQ25796RQMR	SN2001076RWZR	TPS53832RWZR	XTPS55289RYQR
PQ25796RQMT	SN2001076RWZT	TPS53832RWZT	XTPS61376RYHR
PQ25798RQMR	SN548A28RWWR	TPS62824DMQR	
PTPS22998RYZR	TAS2763RPPT	XPS61376SRYHR	
PTPS25972ARPWR	TPS22998RYZR	XPS628660ARQYR	



TI Information tive Disclosure

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

Туре	Test Name / Condition	Duration	Qual Device: TPS53831RWZR	Qual Device: TPS543620RPYR	Qual Device: TPS62903RPJR	QBS Package Reference: <u>SN62825DMQR</u>	QBS Package Reference: <u>TPS62085RLTR</u>
AC	Autoclave 121C	96 Hours	3/231/0	-	3/231/0	-	3/231/0
CDM	ESD - CDM	1500V	-	-	-	2/6/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	2/154/0	-	-	3/231/0	3/231/0
HBM	ESD - HBM	3000V	-	-	-	1/3/0	=
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	-	-	3/2310
HTSL	High Temp Storage Bake 170C	420 Hours	3/231/0	3/231/0	3/231/0	3/231/0	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass	Pass	Pass	Pass	Pass
MSL	Thermal Integrity Sequence	Level 2-260C	3/36/0	3/36/0	3/36/0	-	3/36/0
PD	Physical Dimensions	(per mechanical drawing)	3/15/0	3/15/0	3/15/0	=	3/15/0
SD	Solderability	Pb Free	3/66/0	3/66/0	3/66/0	2/44/0	3/66/0
TC	Temperature Cycle, -55/125C	700 Cycles	3/231/0	3/231/0	-	-	3/231/0
TC	Temperature Cycle, -65/150C	500 Cycles	-	-	3/231/0	3/231/0	-
UHAST	Unbiased HAST 130C/85%RH	96 Hours	-	3/231/0	-	3/231/0	-
VM	Visual Quality Reliability Inspection	Post Temp Cycle	3/6/0	3/6/0	3/6/0	-	3/6/0

- QBS: Qual By Similarity

- Qual Device TPS53831RWZR, TPS543620RPYR, TPS62903RPJR are qualified at LEVEL2-260C
- Qual Device IPS53831RWZR, TPS543620RPYR, TPS62903RPJR are qualified at LEVEL2-260C
 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
 Qualify and Environmental data is available at TI's external Web site: http://www.ti.com/
 Green/Pb-free Status:
 Qualify and Green
 Green/B-Free(SMT) and Green

TI Qualification ID: 20210118-137850

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

Location	E-Mail				
WW Change Management Team	PCN www admin team@list.ti.com				

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.