PCN Nu	mber:	20230	328005.1	.1 PCN Date: March 30, 2023					March 30, 2023		
Title: Qualification of additional BOM materials for select devices											
Customer Contact: PCN Manager						Quality Services					
Proposed 1 st Ship Date: Jun 26				6, 2	, 2023 Sample re accepte						
*Sampl	*Sample requests received after April 28, 2023 will not be supported.										
Change	Type:										
☐ Assembly Site				☐ Design ☐			Wafer Bump Site				
☐ Assembly Process				☐ Data Sheet ☐				Wafer Bump Material			
	embly Ma				Part nu		Wafer Bump Process				
	hanical S	•		Ш	☐ Test Site ☐				r Fab S		
Pac	king/Ship	ping/Lal	beling		☐ Test Process ☐				Wafer Fab Materials		
								Wafer Fab Process			
					PCN	Details					
Descrip	tion of C	hange:									
	This PCN is to inform of the qualification of additional BOM items for the devices in the product affected section as follows:										
	V	Vhat					New				
Во	nd Wire dia	Compo meter	sition,		A		Cu, 1.0 mil				
		om pou	nd		4208625				4222198		
	Mount (Compo	und		4207768				4207123		
Reason	for Char	nge:									
		-90-									
Continuit	y of supp										
Anticipa		oly	Form, Fit,	Fui	nction,	Quality or Reliab	ility	(positi	ve / ı	negative):	
		oly	Form, Fit,	Fui	nction,	Quality or Reliab	ility	(positi	ve / ı	negative):	
Anticipa None	ted imp	oly act on	Form, Fit, tal Rating		nction,	Quality or Reliab	ility	(positi	ive / ı	negative):	
Anticipa None Impact Checked	on Envir	act on conmendicate t	tal Rating	is of er	nvironme	Quality or Reliab	ng ir	mple me	ntatio	n of this chang	
Anticipa None Impact Checked If below	on Envir	oly act on conmen dicate to the checken	he status o	of er re n	nviron me o chang	ental ratings followings to the associate	ng ir d en	mple me	ntation	n of this chang	
Anticipa None Impact Checked If below	on Envir	oly act on conmen dicate to the checken	tal Rating he status o ed, there a	of er re n	nviron me o chang	ental ratings followings to the associate	ng ir d en	mple me	ntation ental r	n of this chang atings.	
Anticipa None Impact Checked If below	on Envir boxes in boxes are RoHS	oly act on conmen dicate the checker	he status of the ed, there a	of erre n	nviron me o chang CH ge	ental ratings followings to the associate	ng ir d en	mple me viron me	ntation ental r	n of this chang atings.	
Anticipa None Impact Checked If below	on Envir boxes in boxes are RoHS	oly act on conmen dicate the checker	he status of the ed, there a	of erre n	nviron me o chang CH ge	ental ratings followings to the associate Green Sta	ng ir d en	mple me viron me	ntation ental r	n of this chang atings.	
Anticipa None Impact Checked If below None Changes	on Envir boxes in boxes are RoHS	oly act on conmen dicate t e checke	he status of the ed, there a	of erre n	nviron me o chang CH ge	ental ratings followings to the associate Green Sta	ng ir d en	mple me viron me	ntation ental r	n of this chang atings.	
Anticipa None Impact Checked If below None Changes	on Envir boxes in boxes are RoHS Change	oly act on conmen dicate t e checke	he status of the ed, there a	of erre n	nviron me o chang CH ge	ental ratings followings to the associate Green Sta	ng ir d en	mple me viron me	ntation ental r	n of this changatings.	



Product Attributes

Attributes	Qual Device: 430F2132IRHBR	Qual Device: BQ24196RGER	Qual Device: TP\$51285BRUKR	Qual Device: TPS53641RSBR	Qual Device: TPS62140RGTR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: TRS3122ERGER
Assembly Site	CHENGDU A/T	CHENGDU A/T	CHENGDU A/T	CHENGDU A/T	CHENGDU A/T	CHENGDU A/T	CHENGDU A/T
Package Family	VQFN	VQFN	WQFN	WQFN	VQFN	WQFN	VQFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	TSMC WFT	RFAB	RFAB	RFAB	MIHO-8	RFAB	RFAB
Wafer Fab Process	TSMC EMB FLASH	LBC7	LBC7X	LBC7X	LBC7X	LBC7	LBC7

⁻ QBS: Qual By Similarity

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

Туре	Test Name / Condition	Duration	Qual Device: 430F2132IRHBR	Qual Device: BQ24196RGER	Qual Device: TPS51285BRUKR	Qual Device: TPS53641RSBR	Qual Device: TP\$62140RGTR	QBS Package Reference: BQ294504DRVR	QBS Package Reference: TRS3122ERGER
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	-	-	-	Pass	-	Pass
FLAM	Flammability (IEC 695-2-2)	-	-	-	-	-	-	-	3/15/0
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
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	3/231/0	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0	3/231/0
WBP	Bond Pull	76 Wire, 3 units min	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	-	3/228/0
WBS	Ball Bond Shear	76 balls, 3 units min	3/228/0	3/228/0	3/228/0	3/228/0	3/228/0	-	3/228/0

⁻ Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

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: 20160218-116848, 20160217-116812 (QBS), 20160119-116479 (QBS)

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

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

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⁻ Qual Devices qualified at LEVEL2-260CG: TPS62140RGTR,BQ24196RGER,430F2132IRHBR, TPS51285BRUKR,TPS53641RSBR, BQ294504DRVR, TRS3122ERGER

⁻ 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 HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Ho
 The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

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