PCN Number:		20220322001.1A						PCN Date: April 18, 2022				
Title: Qualification of Cu as an alternate bond wire for select devices												
Custom	er Conta	ct:	PCN A	<u>Manager</u>	Dept:		Quality Serv					
Propose	ed 1 st Sh	in Da	te:	Jun 18			Estimated		-	Date provided at		
		.p = u		Jul 17,	2022		Ava	ilat	ability: sample request			
Change Type:												
			Design				Wafer Bump Site					
					Data Sheet			Wafer Bump Material				
	Assembly Materials			_	Part number change			Wafer Bump Process				
	hanical S					Test Site			Wafer Fab Site			
Paci	king/Ship	ping/	Labeli	ng	lest Pro	Test Process			Wafer Fab Materials Wafer Fab Process			
					DCI	. D - I	_ •• -	Ш	ware	r Fab	Process	
PCN Details Description of Change:												
				nocod fi	ret chin da	to ac	shown above					
Kevisio	n A IS to	upuai	e pro	posed II	rst snip da	te as	snown above.					
This PCN	lis to info	orm o	f the	gualifica	ation of an	altern	ate bond wire	יוח ב	alificat	ion as	follows	
11115 1 CIV	1 15 (6 1111)	01111 0	Title	quamico	acion or an	aicein	ace bona wii	- 44	iaiiiicac	.1011 43	Tonows.	
	С	urrei	nt Bo	nd Dian	neter	Additional Bond wire & diameter						
Au, 1.0 mils				Cu, 1.0 mils								
Reason for Change:												
Continuity of supply.												
1) To align with world technology trends and use wiring with enhanced mechanical and												
electrical properties												
2) Maximize flexibility within our Assembly/Test production sites.												
3) Cu is easier to obtain and stock												
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):												
Name												
None												
Impact on Environmental Ratings												
Chackad	hoves in	dicato	, tha	status of	fonvironm	ontal	ratings follow	ina	implon	nontat	ion of this	
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		ange 📙 No Change				No Change ■						
Changes to product identification resulting from this PCN:												
None												

Product Affected:				
			1	
ADC08B200CIVS/NOPB	DP83816AVNG-EX/NOPB	DS15BR401TVSX/NOPB	DS92LV3241TVSX/NOPB	
ADC08DL500CIVV/NOPB	DP83816AVNG/NOPB	DS90C124IVS/NOPB	DS99R101VS/NOPB	
ADC08DL502CIVV/NOPB	DP83848IEVV/NOPB	DS90C124IVSX/NOPB	DS99R102VS/NOPB	
ADC10DL065CIVS/NOPB	DP83848IEVVX/NOPB	DS90C124IVSX/S700237 3	DS99R103TVS/NOPB	
ADC12DL066CIVS/NOPB	DP83848IVV/NOPB	DS90C241IVS/NOPB	DS99R104TVS/NOPB	
ADC12DL080CIVS/NOPB	DP83848IVVX/NOPB	DS90C241IVSX/NOPB	DS99R105VS/NOPB	
CP3BT30VVAWQX/E7002123	DP83848IVVX/S7002477	DS90C241IVSX/S700237 4	DS99R106VS/NOPB	
CP3CN37VVAWQX/E7002124	DS15BR400TVS	DS90C3201VS/NOPB	SCAN90004TVS/E5002593	
CP3CN37VVAWQX/NOPB	DS15BR400TVS/NOPB	DS90C3202VS/NOPB	SCAN90004TVS/NOPB	
DP83640TVV	DS15BR400TVSX/NOPB	DS90LV004TVS	SCANSTA112VS	
DP83816AVNG	DS15BR401TVS/NOPB	DS90LV004TVS/NOPB		



TI Information

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

1 -					
Туре	Test Name / Condition	Duration	Qual Device: ADC10DL065GYTZ	Qual Device: DP83816AVNJ8MY	Qual Device: DS90C241IVTSZ6
AC	Autoclave 121C	96 Hours	-	-	3/231/0
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	3/231/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	3/Pass	3/Pass	3/Pass
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0	3/231/0
THB	Biased Temperature and Humidity, 85C/85%RH	1000 Hours	-	-	3/231/0
WBP	Bond Pull	Wires	3/90/0	3/90/0	3/90/0
WBS	Ball Bond Shear	Wires	3/90/0	3/90/0	3/90/0

Green/Pb-free Status: Qualified Pb-Free(SMT) and Green

TI Qualification ID: 20191015-131891

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

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
WW PCN Team	PCN_ww_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

⁻ QBS: Qual By Similarity - Qual Device ADC10DL065GYTZ is qualified at LEVEL3-260CG

⁻ Qual Device DP83816AVNJ8MY is qualified at LEVEL3-260CG - Qual Device DS90C241IVTSZ6 is qualified at LEVEL3-260CG

⁻ 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/

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.