Contact Name Title - Contact Product-Env-Stewards Authorized Representative* Product-Env-Stewards	[@	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			This docu- level parts	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowelevel parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.								
Company name* Company unique ID Unique ID Authority Response Date* 2023-06-08 Contact Name Title - Contact Product-Env-Stewards Authorized Representative* Product-Env-Stewards										als and Mfg	g Informatio	on		
Contact Name Title - Contact Product-Env-Stewards Authorized Representative* Product-Env-Stewards Product-Env-Stewards Authorized Representative* Product-Env-Stewards Product Enviro Compliance Product-Env-Stewards Prod	pplier Informati	ion												
Contact Name Product-Env-Stewards Authorized Representative* Product-Env-Stewards Product-Env	Company name*			Company unique ID			Unique ID Authority				Response Date*			
Product-Env-Stewards Authorized Representative* Product-Env-Stewards Pro	emi										2023-06-08			
Authorized Representative* Product-Env-Stewards Product Enviro Compliance Requester Item Number Mfr Item Number Mfr Item Name Effective Date Version Manufacturing Site Weight* UO NCV7471ADQ5R2G CAN 2LIN 500MA BUBO SBC Deak Process Information Terminal Plating / Grid Array Material Precious metal (e.g. Ag,Au, NiPdAu) (no CU Alloy Title - Representative Product-Env-Stewards NA Product-Env-Stewards@on Manufacturing Site Weight* UO Deak Process Body Temperature Peak Process Body Temperature Max Time at Peak Temperature Number of Reservations Na Na Product-Env-Stewards@on Na	ntact Name		Title - Conta	Title - Contact			Phone - Contact*				Email - Contact*			
Product-Env-Stewards Requester Item Number Mfr Item Number Mfr Item Name Effective Date Version Manufacturing Site Weight* UO NCV7471ADQ5R2G CAN 2LIN 500MA BUBO SBC 2023-06-08 PHG 515.45 mg Manufacturing Process Information Terminal Plating / Grid Array Material Terminal Base Alloy Product-Env-Stewards@o Weight* UO Manufacturing Process Information Peak Process Body Temperature Max Time at Peak Temperature Number of Reserved Seconds NA Product-Env-Stewards@o Weight* UO Manufacturing Process Information Cultury Peak Process Body Temperature Max Time at Peak Temperature Number of Reserved Seconds NA Product-Env-Stewards@o Weight* UO Manufacturing Process Information Cultury Peak Process Body Temperature Max Time at Peak Temperature Number of Reserved Seconds NA Peak Process Body Temperature Number of Reserved Seconds NA NA NA Product-Env-Stewards@o NA NA Neight* UO Manufacturing Site Weight* UO Manufacturing Process Information Cultury Peak Process Body Temperature Number of Reserved Seconds Na NA Na Na Na Peak Process Body Temperature Number of Reserved Seconds Na Na Na Na Na Na Na Na Na N	oduct-Env-Stewards	5	Product Env	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Number	horized Representat	tive*	Title - Repre	Title - Representative			Phone - Representative*			Email - Representative*				
Manufacturing Proccess Information Terminal Plating / Grid Array Material Terminal Base Alloy Precious metal (e.g. Ag,Au, NiPdAu) (no CU Alloy 2 2 260 C 30 seconds 3	oduct-Env-Stewards	5	Product Env	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Manufacturing Proccess Information Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MSL Rating Peak Process Body Temperature Max Time at Peak Temperature Number of Reservices Precious metal (e.g. Ag,Au, NiPdAu) (no CU Alloy 2 2 260 C 30 seconds 3	Requester Ite	em Number	Afr Item Number	n Number Mfr Item Name		Effective Date Version		Ma	Manufacturing Site		eight*	UOM	Unit Type	
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MSL Rating Peak Process Body Temperature Max Time at Peak Temperature Number of Res Precious metal (e.g. Ag,Au, NiPdAu) (no CU Alloy 2 260 C 30 seconds 3		NCV7471ADQ5R2G CA		CAN 2LIN 500MA BUBO SBC		2023-06-08		PF	PHG		5.45	mg	Each	
Precious metal (e.g. Ag,Au, NiPdAu) (no CU Alloy 2 260 C 30 seconds 3	anufacturing Pro	occess Information												
	Terminal Plat	ting / Grid Array Material	Terminal Base	Alloy J-ST	TD-020 MSL Rating	Peak Prod	ak Process Body Temperature Max Time at		Max Time at Peak	ak Temperature Number		mber of Reflow Cycles		
			(no CU Alloy	2		260	C		30 seco		seconds 3			
Comments	nments													
TTENTION: MSL 2 Rated item requires Dry Pack (after electrical test)	TENTION: MSL 2 J	Rated item requires Dry	Pack (after electrical	l test)										

RoHS Material Composition Declaration			Declaration Type *	Detail	led					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).										
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its part and the supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding infor										
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	Accepted					
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.										
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the					
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the					

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	15.99	mg	Supplier	Silicon (Si)	7440-21-3		15.99	mg
Die Attach	2.86	mg		Epoxy resin	proprietary data		0.286	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.143	mg
			Supplier	Silver (Ag)	7440-22-4		2.288	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.143	mg
Lead Frame	172.4	mg	Supplier	Zinc (Zn)	7440-66-6		0.1724	mg
			Supplier	Iron (Fe)	7439-89-6		3.9652	mg
			Supplier	Copper (Cu)	7440-50-8		168.09	mg
			Supplier	Phosphorus (P)	7723-14-0		0.1724	mg
Mold Compound-Black	322.04	mg		Epoxy resin	proprietary data		16.102	mg
			Supplier	Phenolic Resin	Proprietary Data		6.4408	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		8.051	mg
			Supplier	Carbon Black (C)	1333-86-4		1.6102	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		289.836	mg
Plating	1.62	mg	Supplier	Palladium (Pd)	7440-05-3		0.08	mg
			В	Nickel (Ni)	7440-02-0		1.4599	mg
			Supplier	Gold (Au)	7440-57-5		0.08	mg
Wire Bond - Au	0.54	mg	Supplier	Gold (Au)	7440-57-5		0.54	mg