ASSOCIATION CONNECTINI LECTRONICS INDUSTRIE:	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both This level	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
52-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typhttp://www.ipc.org/IPC-175x Distribute				Form Type * Distribute	* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi				ials and Mfg Information				
upplier Inform	nation													
Company name*			Company unique ID			Un	Unique ID Authority				Response Date*			
semi											2025-06-08			
ontact Name			Title - Contact			Ph	Phone - Contact*				Email - Contact*			
roduct-Env-Stewa	ards		Product Enviro Compliance			N.	NA				Product-Env-Stewards@onsemi.com			
uthorized Represe	entative*	Title - Representative			Ph	Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			N.	NA				Product-Env-Stewards@onsemi.com			
Requeste	er Item Number	Mfr Item Number		Mfr Item Name		Е	ffective Date	Version	Manufacturing Site		V	Veight*	UOM	Unit Type
	ES2A		UFR SMB PN 2A 50V		50V	20	2025-06-08 PANJITFG		JITFG	9	2.0	mg	Each	
	Proccess Informati		erminal Base 4	Alloy	STD-020 MSL Rati	ina	Dank Proces	c Rody Tampa	ratura	May Time at Peak	Tamparati	ura Numb	er of Reflow Cyc	, lac
			CU Alloy 1-31		STD-020 WISE Kau	ing	Peak Process Body Temper 260 C						er or Keriow Cyc	nes
omments	ii (Sii) - aimeaieu		U Anoy	1			200	C		<u> </u>	secono	15  3		
	ime at peak temperatur	o during sol	doring is 10 2	A seconds										
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<b>RoHS Material Composition Declaration</b>			Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU											
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 knowledge 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 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 into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of the Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 4 - Item(s	s) does not contain RoHS restricted substance	ces per the definition above except for selected exer	nptions Supplier Acceptance	* Accepted							
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).  Exemption: 7c-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.											
Supplier Digital Signature R		,									

## **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	0.764	mg	Supplier	Silicon (Si)	7440-21-3		0.6876	mg	
			В	Nickel (Ni)	7440-02-0		0.005	mg	
			Supplier	Gold (Au)	7440-57-5		0.0011	mg	
			Supplier	Lead Bisilicate	65997-18-4	7c	0.0703	mg	
Die Attach Solder	2.25	mg	Supplier	Silver (Ag)	7440-22-4		0.0563	mg	
			A	Lead (Pb)	7439-92-1	7a	2.0812	mg	
			Supplier	Tin (Sn)	7440-31-5		0.1125	mg	
Lead Frame	34.0437	mg	Supplier	Iron (Fe)	7439-89-6		0.0409	mg	
			Supplier	Copper (Cu)	7440-50-8		33.9926	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.0102	mg	
Mold Compound-Black	54.234	mg		Metal Hydroxide	proprietary data		1.8982	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		4.3387	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.2712	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		43.3872	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		4.3387	mg	
Plating	0.7083	mg	Supplier	Tin (Sn)	7440-31-5		0.7083	mg	