© Copyrig	l Composition De ht 2005. IPC, Bannock al and Pan-American d	burn, Illinois. A	ll rights reserved u ntions.	Inder both	This docume evel parts, tl	ent is a declar he declaratio	ration of th n encompa	ne substances asses all lowe	within the er level ma	e manufactur terials for wi	rer listed it hich the m	em. No anufact	ote: if the i turer has e	tem is an ass engineering r	embly with lowe esponsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information					
Supplier Information																
Company name*	Company un	Company unique ID			Unique ID Authority					Response Date*						
onsemi												2023-06-08				
Contact Name	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*						
Product-Env-Stewards	Product Envi	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com						
Authorized Representative*	Title - Representative			Phone - Representative*				Email - Representative*								
Product-Env-Stewards	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com								
Requester Item Number	.1					Effective DateVersionManufacturing S2023-06-08PH1		ring Site	Weight* 21.81		* 1	UOM	Unit Type			
											1	mg	Each			
Manufacturing Proccess I	nformation					1	1	1					I		1	
Terminal Plating / Grid	Terminal Plating / Grid Array Material		inal Base Alloy J-STD-02		Rating	Peak Pr	A Process Body Temperature Max		re Max T	ax Time at Peak Tempera		ire N	umber of	Reflow Cycl	es	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy	U Alloy 1			260		C	30		second	seconds 3				
Comments																
evel 1 - maximum time at peak t	emperature during s	oldering is 10-3	0 seconds													
or more information regarding	material composition	please refer to	page 3													

RoHS Material Composition Declaration				Declaration Type *	Detailed							
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), Disobutyl phthalate (DIBP).											
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe v others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and co for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of							
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted							
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all							
Exemption List Version	EL-2011/534/EU											
Declaration Signature												
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the							
Supplier Digital Signature Ra	stislav Drska	Le										

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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.84	mg	Supplier	Silicon (Si)	7440-21-3		0.84	mg
Die Attach	0.31	mg		Epoxy resin	proprietary data		0.031	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.0155	mg
			Supplier	Silver (Ag)	7440-22-4		0.248	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.0155	mg
Lead Frame	10.38	mg	Supplier	Zinc (Zn)	7440-66-6		0.0125	mg
			Supplier	Iron (Fe)	7439-89-6		0.2439	mg
			Supplier	Copper (Cu)	7440-50-8		10.1205	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0031	mg
Mold Compound-Black	10.1	mg		Epoxy resin	proprietary data		0.7575	mg
			Supplier	Phenolic Resin	Proprietary Data		0.2525	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.7575	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0505	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.282	mg
Plating	0.11	mg	Supplier	Palladium (Pd)	7440-05-3		0.01	mg
			В	Nickel (Ni)	7440-02-0		0.0989	mg
			Supplier	Gold (Au)	7440-57-5		0.0011	mg
Wire Bond - Au	0.07	mg	Supplier	Gold (Au)	7440-57-5		0.07	mg

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).