ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.					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.											
752-21.1	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 Informa	tion																
Company name*	Company unique ID				Unique ID Authority						Response Date*						
nsemi											2023-06	2023-06-08					
Contact Name		Title - Contact				Phone - Contact*					Email - Contact*						
Product-Env-Stewards			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 I	Requester Item Number Mfr Item			n Number Mfr Item Name			Effective Date Version Manufac		anufactur	ing Site	Weight*		ht*	UOM	Unit Type		
SZESD7			481MUT5G	Low Cap bi-directional ESD protection in 0201 DFN			2023-06-08			0.2847		mg	Each				
Ianufacturing P	roccess Information	L															
Terminal Plating / Grid Array Material		al T	erminal Base A	Alloy	J-STD-020 MSL Rat		Peak Process		Body Temperature M		Max Ti	me at Peak	Tempera	ture	Number	of Reflow Cyc	les
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			U Alloy	1			260		C		30		secor	seconds 3			
omments																	
vel 1 - maximum tim	ie at peak temperature d	luring sol	dering is 10-3	0 seconds													
or more information	regarding material com	position j	please refer to	page 3													

RoHS Material Composition Declaration				Declaration Type *	Detailed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth	
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 y 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	0.024	mg	Supplier	Silicon (Si)	7440-21-3		0.024	mg
Die Attach Epoxy	0.0378	mg		Epoxy resin	proprietary data		0.0038	mg
			Supplier	Cumene hydroperoxide	80-15-9		0.0002	mg
			Supplier	Diethylene glycol monoethyl ether acetate	112-15-2		0.0017	mg
			Supplier	Silver (Ag)	7440-22-4		0.0321	mg
Lead Frame	0.1083	mg	Supplier	Tin (Sn)	7440-31-5		0.0003	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0002	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0003	mg
			Supplier	Copper (Cu)	7440-50-8		0.1075	mg
Mold Compound-Black	0.0828	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0066	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0004	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0017	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.0716	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0025	mg
Plating	0.0269	mg	Supplier	Palladium (Pd)	7440-05-3		0.0025	mg
			В	Nickel (Ni)	7440-02-0		0.0243	mg
			Supplier	Gold (Au)	7440-57-5		0.0001	mg
Wire Bond - Au	0.0049	mg	Supplier	Gold (Au)	7440-57-5		0.0049	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).