© Copy	rial Composition right 2005. IPC, Bar ional and Pan-Amer	nnockburn, Illino	s. All rights reserved	under both This level	documen parts, the	nt is a declara e declaration	tion of the su encompasses	ibstances s all lowe	within the r level mate	nanufacture rials for wh	er listed ite	m. Note: nufacture	if the item is an as er has engineering	sembly with loweresponsibility.	
	IPC Web Site for Information on IPC-1752 Standard Form Typ 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 unique ID 1			Unique ID Authority					Response Date*				
onsemi											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	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Requester Item Nur	Requester Item Number Mfr Item Num ESDM3051N				I	Effective Dat	e Version	N	Manufacturing Site		W	eight*	UOM	Unit Type	
					D-882 2	2023-06-08 CN1			0.824		mg	Each			
Manufacturing Proccess	s Information		1	-									1	1	
Terminal Plating / G	Terminal Plating / Grid Array Material		Terminal Base Alloy J-S		TD-020 MSL Rating		Peak Process Body Temperature		e Max Tir	ne at Peak '	eak Temperature Number of Reflow Cyd		eles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		no CU Alloy		1		260		С		30 se		seconds 3			
Comments															
vel 1 - maximum time at pea	k temperature dur	ing soldering is	0-30 seconds												
or more information regardi	ing material compo	sition please ref	er 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), Diisobutyl 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 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 cc 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	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.

mogeneous Material Weight Unit of Measure Level		Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	0.015	mg	Supplier	Silicon (Si)	7440-21-3		0.015	mg
Die Attach	0.008	mg	Supplier	Silver (Ag)	7440-22-4		0.006	mg
			Supplier	Epoxy resins	129915-35-1		0.002	mg
Lead Frame	0.45	mg	Supplier	Magnesium (Mg)	7439-95-4		0.0007	mg
			Supplier	Silicon (Si)	7440-21-3		0.0029	mg
			В	Nickel (Ni)	7440-02-0		0.0135	mg
			Supplier	Copper (Cu)	7440-50-8		0.4329	mg
Mold Compound-Black	0.34	mg	Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0255	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0017	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.2703	mg
			Supplier	EpoxyNovolaCresins (Cresolic)	64425-89-4		0.017	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0255	mg
Plating	0.008	mg	Supplier	Palladium (Pd)	7440-05-3		0.0007	mg
			В	Nickel (Ni)	7440-02-0		0.0072	mg
			Supplier	Gold (Au)	7440-57-5		0.0001	mg
Wire Bond - Cu	0.003	mg	Supplier	Copper (Cu)	7440-50-8		0.003	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).