ASSOCIATION CONNECTIN	Material Composition © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved untions.	nder both	This docum level parts,	ent is a declaration	ion of the s encompasse	ubstances s all lower	within the manufactur r level materials for w	rer listed i hich the r	tem. Note: if t nanufacturer h	he item is an as as engineering	sembly with lower responsibility.	
1752-21.1	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 Materi					als and Mfg Information					
Supplier Inform	ation														
Company name*			Company unique ID				Unique ID Authority					Response Date*			
onsemi												2024-05-20			
Contact Name			Title - Contact				Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env-Stewa	rds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requeste	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	e Version Manufacturing Site			Weight*	UOM	Unit Type		
		HCPL0453 S		SO8 1MB TR			2024-05-20		Т	ТНН		168.58636	mg	Each	
Manufacturing	Proccess Information	n													
Terminal Plating / Grid Array Material			erminal Base Alloy J-STD-020 MS		L Rating	Peak Process Body Temperat		emperatur	ture Max Time at Peak Tem		ture Number	of Reflow Cy	eles		
Matte Tin (Sn) - annealed CU			U Alloy	Alloy 1			<b>260</b> C		С	30 5		seconds 3			
Comments															
evel 1 - maximum t	ime at peak temperature o	luring sol	dering is 10-3	0 seconds											
for more informati	on regarding material con	position j	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), 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 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 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	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 U		Unit of Measure	Level	Level Substance		Exempt	Weight	Unit of Measure
Coupling Gel	4.18236	mg	Supplier	Dimethyl Cyclosiloxanes	69430-24-6		0.046	mg
			Supplier	Trimethoxy(methyl)silane (C4H12O3Si)	1185-55-3		4.1364	mg
Die	4.043	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.283	mg
			Supplier	Silicon (Si)	7440-21-3		3.76	mg
Die Attach	0.754	mg	Supplier	Silver (Ag)	7440-22-4		0.6032	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.1508	mg
Lead Frame	59.197	mg	Supplier	Silver (Ag)	7440-22-4		0.148	mg
			Supplier	Zinc (Zn)	7440-66-6		0.071	mg
			Supplier	Iron (Fe)	7439-89-6		1.36	mg
			Supplier	Copper (Cu)	7440-50-8		57.6	mg
			Supplier	Phosphorus (P)	7723-14-0		0.018	mg
Mold Compound-White	98.06	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4- hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		3.92	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		23.5	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		2.94	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		67.7	mg
Plating	2.1	mg	Supplier	Tin (Sn)	7440-31-5		2.1	mg
Wire Bond - Au	0.25	mg	Supplier	Gold (Au)	7440-57-5		0.25	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).