ASSOCIATION CONNECTION ELECTRONICS INDUSTRIE	Material Compo © Copyright 2005. IP international and Pan-	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 lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
1752-21.1		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					rials and M	Ifg Information	on		
Supplier Inform										,		Ü			
Company name*			Company unique ID			J	Unique ID Authority					Response Date*			
onsemi										2023-06	2023-06-08				
Contact Name		Title - Contact			I	Phone - Contact*				Email - Contact*					
Product-Env-Stew	ards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Repres	entative*	Title - Representative			I	Phone - Representative*				Email - Representative*					
Product-Env-Stew	ards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Request	er Item Number			Mfr Item Name			Effective Date	e Versi	ion	Manufacturing Site		Weight*	UOM	Unit Type	
				4A GATE DRIVE	VER		2023-06-08	23-06-08 THH		ТНН	203.109		mg	Each	
Ianufacturing	Process Informati	ion						·							
Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MSI		SL Rating	Peak Process Body Tempera		y Temperatu	ire Max Time at Peal	k Tempera	ture Numbe	er of Reflow Cyc	eles		
Matte Tin (Sn) - annealed			CU Alloy 1				260 C 30		seconds 3						
omments															
vel 1 - maximum	time at peak temperatui	re during sol	dering is 10-3	0 seconds											
or more informati	ion regarding material c	composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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).											
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 enter 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 that agreement, will be the sole and exclusivesource of the Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the						

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
Coupling Gel	0.37	mg	Supplier	Filler (SiO2)	68909-20-6		0.074	mg
			Supplier	Dimethyl Siloxane	68083-19-2		0.296	mg
Die	0.099	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.033	mg
			Supplier	Silicon (Si)	7440-21-3		0.066	mg
Die Attach	0.092	mg	Supplier	Silver (Ag)	7440-22-4		0.0754	mg
			Supplier	Dicyandiamine	461-58-5		0.0009	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0156	mg
Lead Frame	35.26	mg	Supplier	Silver (Ag)	7440-22-4		0.1763	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0317	mg
			Supplier	Iron (Fe)	7439-89-6		0.7405	mg
			Supplier	Copper (Cu)	7440-50-8		34.2798	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0317	mg
Mold Compound-Black	125.09	mg	В	Brominated Bisphenol A Diglycidyl Ether	r 40039-93-8		2.5018	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.8763	mg
			Supplier	Carbon Black (C)	1333-86-4		0.6254	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		88.8139	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		21.8907	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.3818	mg
Mold Compound-White	39.44	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		7.888	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		27.608	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		3.944	mg
Plating	0.36	mg	Supplier	Tin (Sn)	7440-31-5		0.36	mg
Wire Bond - Au	2.398	mg	Supplier	Gold (Au)	7440-57-5		2.398	mg