ASSOCIATION CONNECT	© Copyright 2005, IPC	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 lowel 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 Typhttp://www.ipc.org/IPC-175x Distribute										als and Mf	g Infori	mation			
Supplier Info	rmation																
Company name*		Company unique ID			Ţ	Unique ID Authority					Response Date*						
nsemi													2023-06-08				
Contact Name			Title - Contact			I	Phone - Contact*					Email - Contact*					
Product-Env-Ste	wards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com						
uthorized Repre	esentative*	Title - Representative			I	Phone - Representative*				Email - Representative*							
Product-Env-Ste	wards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com							
Reque	ester Item Number						Effective Da	te Versi	Version Manufacturing Site		ing Site	Weight*		· L	JOM	Unit Type	
					e Grade LVDS	Line	2023-06-08		7	ТНВ		1:	15.67 mg		ng	Each	
Ianufacturin	g Proccess Informatio	n															
Termin	Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MS	SL Rating	Peak Pro	Peak Process Body Temperatu		re Max Time at Peak Temper		Temperatu	nture Number of Reflow Cycles		les		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		au) (no	CU Alloy 1		1		260		C		30 seco		s 3				
comments																	
vel 1 - maximun	n time at peak temperature	during so	ldering is 10-3	0 seconds													
or more informa	ation regarding material co	nposition	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 have 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 andConditions 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
Die	0.8	mg	Supplier	Silicon (Si)	7440-21-3		0.8	mg
Die Attach Epoxy	0.1	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.003	mg
			Supplier	Miscellaneous	Trade Secret		0.005	mg
			Supplier	Silver (Ag)	7440-22-4		0.085	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.007	mg
Lead Frame	8.68	mg	Supplier	Zinc (Zn)	7440-66-6		0.0104	mg
			Supplier	Iron (Fe)	7439-89-6		0.2083	mg
			Supplier	Copper (Cu)	7440-50-8		8.4543	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0069	mg
Mold Compound-Black	5.93	mg		Epoxy resin	proprietary data		0.2965	mg
			Supplier	Phenolic Resin	Proprietary Data		0.2965	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.1186	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0296	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		5.1887	mg
Plating	0.06	mg	Supplier	Palladium (Pd)	7440-05-3		0.0046	mg
			В	Nickel (Ni)	7440-02-0		0.0546	mg
			Supplier	Gold (Au)	7440-57-5		0.0008	mg
Wire Bond - Au	0.1	mg	Supplier	Gold (Au)	7440-57-5		0.1	mg