ASSOCIATION CONNEC	© Copyright 2005, IPG	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 low 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 Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					Materials a	nd Mfg Iı	nformatio	n	
Supplier Info	rmation														
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*			
nsemi												2023-06-12			
Contact Name		Title - Contact			I	Phone - Contact*				En	Email - Contact*				
Product-Env-Ste	ewards	Product Enviro Compliance			1	NA				Pr	Product-Env-Stewards@onsemi.com				
authorized Repr	esentative*	Title - Representative			I	Phone - Representative*				Em	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			1	NA				Pr	Product-Env-Stewards@onsemi.com			
Reque	ester Item Number	Mfr Iten	tem Number Mfr Item Name				Effective Date	e Version	ersion Manufacturing Site		Site	Wei	ght*	UOM	Unit Type
		ESDM3051MXT5G		bidirectional 5V mid-cap surge in X3DFN		3DFN	2023-06-12		MY1			0.26	265 mg		Each
// // // // // // // // // // // // //	ng Proccess Informati	on													,
Termin	nal Plating / Grid Array Mat	erial 7	Terminal Base Alloy		J-STD-020 MSL R	STD-020 MSL Rating		Peak Process Body Temperature		e Max Time	ne at Peak Temperat		re Number of Reflow Cycles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		Au) (no	CU Alloy 1		1		260		C 30		:	seconds	ds   3		
Comments														<u> </u>	
vel 1 - maximui	m time at peak temperatur	e during so	ldering is 10-3	0 seconds											
or more inform	ation regarding material c	omposition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	led				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an						
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not e at least as comprehensive as the hts and/or remedies provided as part of				
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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									
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the				
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.013	mg	Supplier	Silicon (Si)	7440-21-3		0.013	mg
Die Attach	0.0189	mg	Supplier	Silver (Ag)	7440-22-4		0.0142	mg
			Supplier	Epoxy resins	129915-35-1		0.0047	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	0.093	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0074	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0005	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0019	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.0804	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0028	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