ASSOCIATION CONI		Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower 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 Materi					ials and Mfc Information			
upplier Inf	formation	,							,					
Company name*			Company unique ID			J	Unique ID Authority				Response Date*			
nsemi											2025-07-01			
Contact Name	:		Title - Contact			I	Phone - Contact*				Email - Contact*			
Product-Env-S	Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
uthorized Re	epresentative*	Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
Rec	quester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	N	Manufacturing Site		Veight*	UOM	Unit Type
		MMSZ5238BT1G ZEN SOD12		ZEN SOD123 REG	3 REG 0.5W 8.7V		2025-07-01		C	CN1		1.525	mg	Each
	ring Process Informa										_			
ž ž		•		STD-020 MSL	Rating			Body Temperature   Max Time at Peak				er of Reflow Cyc	eles	
Mat	tte Tin (Sn) - annealed		CU Alloy	1			260		C	30	second	ls  3		
omments														
	num time at peak temperat													
or more infor	rmation regarding materia	l composition	please refer t	o 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 have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such											
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	0.88	mg	Supplier	Silicon (Si)	7440-21-3		0.88	mg
Lead Frame	3.19	mg	В	Nickel (Ni)	7440-02-0		1.158	mg
			Supplier	Iron (Fe)	7439-89-6		1.6014	mg
			Supplier	Copper (Cu)	7440-50-8		0.4306	mg
Mold Compound-Black	6.51		Supplier	Boron zinc hydroxide oxide	138265-88-0		0.1953	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0325	mg
			Supplier	2,4,6-triamino-s-triazincompd.withs-triazine-triol	37640-57-6		0.1953	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.208	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0651	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.5208	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.2929	mg
Plating	0.8	mg	Supplier	Tin (Sn)	7440-31-5		0.8	mg
Wire Bond	0.145	mg	Supplier	Palladium (Pd)	7440-05-3		0.0019	mg
			Supplier	Copper (Cu)	7440-50-8		0.1431	mg