IPC ASSOCIATION ELECTRONIC	© Copyright 2005	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under international and Pan-American copyright conventions.			nder both Tile	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.									
752-21.1		IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x Form Tyl Distribute				Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Mater					ials and Mfg Information				
upplie	r Information														
Company name* Company uniqu				que ID Un			Unique ID Authority					Response Date*			
n Semic	onductor											2021-02-04			
Contact N	lame	Title - Contact			P	Phone - Contact*					Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*		Title - Representative			P	Phone - Representative*				Email - Representative*				
Product-l	Env-Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Ite		m Number Mfr Item Name				Effective Dat	e Ve	ersion	Manufacturing Site		V	Veight*	UOM	Unit Type
		MMBZ5245BLT3 ZEN		ZEN SOT23 REG .225W 15V		2021-02-04				8	.13	mg	Each		
Ianufa	cturing Proccess Inforn	nation													·
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-		J-STD-020 MSL R	Rating	Peak Process Body		ody Temperatur	ody Temperature Max Time at Peak		Temperatu	ire Nun	nber of Reflow Cy	cles
PbSn		CU Alloy 1			235 C		C	30 s		second	ls 3				
omments	3														
vel 1 - m	naximum time at peak temper	ature during so	ldering is 10	30 seconds											
or more	information regarding materi	ial composition	please refer t	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		w mass (100 PPM) in homogeneous material for Ca(Cr6+), Polybrominated Biphenyls (PBB), Polybromisobutyl phthalate (DIBP).							
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cert as of the date that Supplier completes this for Company acknowledges that Supplier may be independently verified information provided certification in this paragraph. If the Company that agreement, will be the sole and exclusive	ted biphenyls and/or polybrominated diphenyl es of an applicable quantity limit, please indicate ifies that it gathered the information it provides m. Supplier acknowledges that Company will relive relied on informationprovided by others in c by others, Supplier agrees that, at a minimum, it and the Supplier enter into a written agreement	011/65/EU and implemented by the laws of the Euchters (each a "RoHS restricted substance") in excluded which, if any, RoHS exemption you believ in this form using appropriate methods to ensure itly on this certification in determining the compliant completing this form, and that Supplier may not has the suppliers have provided certifications regarding the with respect to the identified part, the terms and county's remedies for issues that arise regarding information to such part shall apply.	ess of the applicable quantity limit identified above may apply. If the part is an assembly with lowests accuracy and that such information is true and the compact of its products with European Union members with the part, and those certifications to the part, and those certification oditions of that agreement, including any warrance.	ove. If a homogeneous material within the part er level components, the declaration shall 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 unty rights and/or remedies provided as part of					
RoHS Declaration * 5 - Item(s	s) is obsolete, no information is available		Supplier Acceptance	* 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									
Instructions: Complete all of the required	fields on all pages of this form. Select the "Ac	cented" on the Supplier Acceptance dron-down	n This will display the signature area Digital	ly sign the declaration (if required by the					
Instructions: Complete all of the required Requester) and click on Submit Form to ha	fields on all pages of this form. Select the "Acave the form returned to the Requester.	ccepted" on the Supplier Acceptance drop-down	n. This will display the signature area. Digital	ly 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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.16	mg	Supplier	Silicon (Si)	7440-21-3		0.16	mg
Lead Frame	2.92	mg	Supplier	Silver (Ag)	7440-22-4		0.5198	mg
			В	Nickel (Ni)	7440-02-0		0.9023	mg
			Supplier	Iron (Fe)	7439-89-6		1.2468	mg
			Supplier	Copper (Cu)	7440-50-8		0.2511	mg
Mold Compound-Black	4.9		Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.49	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0245	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.7105	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3.185	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.49	mg
Plating	0.14	mg	A	Lead (Pb)	7439-92-1		0.028	mg
			Supplier	Tin (Sn)	7440-31-5		0.112	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg