ABSOCIATION CONNECTING ELECTRONICS INDUSTRIESS international and Pa	IPC. Bannockł	burn, Illinois, A	Il rights reserved u ntions.	nder both	This docum level parts, t	ent is a declaration en	n of the substa compasses all	ances within the manufacture lower level materials for w	urer listed which the	item. Note: if manufacturer	the item is an as has engineering	sembly with lower responsibility.	
	-21.1 IPC Web Site for Information on IPC-1752 Standard For http://www.ipc.org/IPC-175x Dis				e * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa					Mfg Informatio	on		
Supplier Information													
Company name* Compan			mpany unique ID			Unique ID Authority				Response Date*			
onsemi										2025-07-31			
Contact Name Title - Contact			t			Phone - Contact*			Email	Email - Contact*			
Product-Env-Stewards Product Envir			nviro Compliance			NA			Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Repres			presentative		Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Product Er			luct Enviro Compliance			NA			Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item	n Number	Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
	MMSZ1	MMSZ13T1G ZEN SOD1		DD123 REG 0.5W 13V F		2025-07-31		CN1	CN1		mg	Each	
Manufacturing Proccess Informa	ntion												
Terminal Plating / Grid Array M	laterial 7	Ferminal Base	lloy J-STD-020 MSL Ratin		Rating	Peak Process Body Temperature Ma		erature Max Time at Pea	ak Temperature Number of Reflow Cycles		cles		
Matte Tin (Sn) - annealed CU Alloy		1			260	C	30	seco	onds 3				
Comments													
evel 1 - maximum time at peak temperat	ure during so	ldering is 10-3	0 seconds										
or more information regarding materia	l composition	please refer to	o page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	oHS 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 hthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).									
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l 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 anty rights and/or remedies provided as part of					
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted					
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all					
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the					
Supplier Digital Signature Ra	stislav Drska	Le								

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.

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	mg	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	