ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	Material Composit © Copyright 2005. IPC, 1 international and Pan-Am	Bannockb	urn, Illinois. A	Ill rights reserved untions.	under both	This docum level parts, t	ent is a decla the declaratic	ration of n encom	the substances passes all low	s within the manufa er level materials fo	cturer listed r which the	l item. Note:	if the item is an as r has engineering	ssembly with lower responsibility.	
1752-21.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x				Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
Supplier Informa	ation														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi											2024-0	2024-05-20			
Contact Name			Title - Contact			Phone - Contact*				Email	Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance			NA				Prod	Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*			Email	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Prod	Product-Env-Stewards@onsemi.com				
Requester	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective D	ate Vei	rsion	Manufacturing Site		Weight*	UOM	Unit Type	
		MMSZ5229BT1G		ZEN SOD123 REG 0.5W 4.3V			2024-05-20	24-05-20 CN1			11.525	mg	Each		
Manufacturing P	Proccess Information	1													
Terminal Plating / Grid Array Material Term			rminal Base Alloy J-STD-020 MSL R		L Rating	Peak Process Body Temperature Ma		re Max Time at P	ak Temperature Number of Reflow Cycles		cles				
Matte Tin (Sn) - annealed CU Alle			U Alloy	1			260 C 30		30	seconds 3					
Comments															
level 1 - maximum tin	ne at peak temperature d	luring sol	dering is 10-3	0 seconds											
For more information	n regarding material com	position p	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed						
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	(Pb), Mercury (Hg), Hexavalent Chror	IS 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 , Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl alate (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 co 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	on above	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 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