IPC ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bointernational and Pan-American copyright conventions.		der both le	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 I	Information								·					
Company name*			Company unique ID			τ	Unique ID Authority				Response Date*			
nsemi										2024-05-05				
ontact Nan	me	Title - Contact			P	Phone - Contact*				Email - Contact*				
Product-En	v-Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
uthorized I	Representative*	Title - Representative			P	Phone - Representative*				Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
F	Requester Item Number	Mfr Item	Number	umber Mfr Item Name			Effective Date	ive Date   Version   Manufacturing Site		Ianufacturing Site	W	eight*	UOM	Unit Type
		2SD1815S-TL-E BIP N		BIP NPN 3A 100V	BIP NPN 3A 100V		2024-05-05		C	CNG		31.48	mg	Each
	uring Proccess Inform													·
	2 2			erminal Base Alloy J-STD-020 MSL Rating			Peak Process Body Temperature Max Time at Peak							
co	ontains Bi	C	CU Alloy	1			260		C	30	second	s  3		
omments														
<u>/el 1 - max</u>	ximum time at peak tempera	ture during sol	dering is 10-	30 seconds										
or more inf	formation regarding materia	al composition	please refer t	o page 3										

RoHS Material Composition Declaration			Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU											
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 cornel 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 paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itability 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 * 4 - Item(s	) does not contain RoHS restricted substance	es per the definition above except for selected exemp	otions Supplier Acceptance	* Accepted							
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required f Requester) and click on Submit Form to ha		'Accepted" on the Supplier Acceptance drop-dow	n. This will display the signature area. Digita	lly sign the declaration (if required by the							
Supplier Digital Signature Ra	astislav Drska	-6_									

## **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	1.04	mg	Supplier	Silicon (Si)	7440-21-3		1.04	mg
Die Attach Solder	0.49	mg	Supplier	Silver (Ag)	7440-22-4		0.0123	mg
			A	Lead (Pb)	7439-92-1	7a	0.4533	mg
			Supplier	Tin (Sn)	7440-31-5		0.0245	mg
Lead Frame	146.45	mg	Supplier	Silver (Ag)	7440-22-4		0.3808	mg
			Supplier	Tin (Sn)	7440-31-5		0.205	mg
			Supplier	Copper (Cu)	7440-50-8		145.8642	mg
Mold Compound-Black	129.72	mg		Brominated epoxy resin	proprietary data		1.8161	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		5.8374	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.1675	mg
			Supplier	Carbon Black (C)	1333-86-4		1.2972	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		97.29	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		22.0524	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2594	mg
Plating	3.34	mg	В	Bismuth (Bi)	7440-69-9		0.02	mg
			Supplier	Tin (Sn)	7440-31-5		3.32	mg
Wire Bond - Au	0.44	mg	Supplier	Gold (Au)	7440-57-5		0.44	mg