ASOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and Pan-	C. Bannockł	ourn. Illinois. A	ll rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	tion of the s encompasse	ubstances es all lowe	within the m r level mater	anufacture ials for whi	r listed item ich the manu	Note: if facturer	the item is an as has engineering	sembly with lowe responsibility.
	IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distr				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materia					us Material	als and Mfg Information			
Supplier Information														
Company name* Co			Company unique ID			Unique ID Authority					Response Date*			
onsemi										:	2024-05-16			
ontact Name Title - Contact			ct			Phone - Contact*					Email - Contact*			
Product-Env-Stewards Product E			Enviro Compliance			NA					Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Repr			esentative			Phone - Representative*				Email - Representative*				
Product-Env-Stewards Pro			Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Number		umber Mfr Item Name			Effective Dat	e Version	]	Manufacturing Site		Wei	ght*	UOM	Unit Type
	SMUN5	IUN5211DW1T1G SS SC88 BR XS		'R NPN 50V		2024-05-16			CN1		6.2		mg	Each
Manufacturing Proccess Informat	ion		•					·						
Terminal Plating / Grid Array Mat	rminal Plating / Grid Array Material Terminal Base A		Alloy	J-STD-020 MSL Rating		Peak Pro	Peak Process Body Temperatu		ure Max Time at Peak Tempera		Temperature	mperature Number of Reflow Cycles		eles
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1	260	260 C		30		seconds	3			
Comments														
evel 1 - maximum time at peak temperatu	e during so	Idering is 10-3	0 seconds											
or more information regarding material o	omposition	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed							
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), Dibutyl 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 v 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	0.19	mg	Supplier	Silicon (Si)	7440-21-3	Exempt	0.19	mg
Lead Frame	2.04	mg	В	Nickel (Ni)	7440-02-0		0.7813	mg
		-	Supplier	Iron (Fe)	7439-89-6		1.0792	mg
			Supplier	Copper (Cu)	7440-50-8		0.1795	mg
Mold Compound-Black	3.9	mg	Supplier	Boron zinc hydroxide oxide	138265-88-0		0.117	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0195	mg
			Supplier	2,4,6-triamino-s-triazincompd.withs- triazine-triol	37640-57-6		0.117	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		3.12	mg
			Supplier	Carbon Black (C)	1333-86-4		0.039	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.312	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1755	mg
Plating	0.05	mg	Supplier	Tin (Sn)	7440-31-5		0.05	mg
Wire Bond - Cu	0.02	mg	Supplier	Copper (Cu)	7440-50-8		0.02	mg

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 (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 signa range of distribution unless otherwise noted).