ABSOCIATION CONNECTING ELECTRONICS (NOUSTRIES+) international and Pan-	C. Bannockt	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 ma r level materia	anufacture als for whi	r listed item. ich the manut	Note: if facturer l	the item is an as has engineering	sembly with lowe responsibility.
			Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and M					s and Mfg In	formatio	on			
Supplier Information														
Company name* Com			Company unique ID			Unique ID Authority					Response Date*			
onsemi											2025-06-05			
Contact Name	ntact Name Title - Contact					Phone - Contact*					Email - Contact*			
Product-Env-Stewards Product Env			viro Compliance			NA					Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Re			epresentative			Phone - Representative*				1	Email - Representative*			
Product-Env-Stewards Pro			Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Number		ber Mfr Item Name			Effective Dat	e Version	]	Manufacturing Site		Weig	,ht*	UOM	Unit Type
	SMUN5	MUN5213DW1T1G SS SC88 BR XST		FR NPN 50V	NPN 50V 20				CN1		6.2		mg	Each
Manufacturing Proccess Information	on		•					·						
Terminal Plating / Grid Array Mat	rray Material Terminal Base Alloy		Alloy	J-STD-020 MSI	TD-020 MSL Rating		Peak Process Body Temperature Max Time at Pe		e at Peak T	k Temperature Number of Reflow Cycles				
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1		260		С	30		seconds	3		
Comments														
evel 1 - maximum time at peak temperatur	e during so	ldering is 10-3	0 seconds											
or more information regarding material c	omposition	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybro	ominated Biphenyls (PBB), Polybron	dmium and quantity limit of 0.1% by mass (100 minated Diphenyl Ethers (PBDE), and Bis(2-eth						
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	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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.										
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.

sigma range of distribution unless otherwise noted).									
Homogeneous Material Weight Unit of Meas		Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	0.19	mg	Supplier	Silicon (Si)	7440-21-3		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	0.02	mg	Supplier	Palladium (Pd)	7440-05-3		0.0002	mg	
			Supplier	Copper (Cu)	7440-50-8		0.0198	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 (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).