C C C C C C C C C C C C C C C C C C C	Iaterial Composit Copyright 2005. IPC, I ternational and Pan-An	Bannockb	urn, Illinois. A	Il rights reserved untions.	under both	This docume level parts, t	ent is a decla he declaratio	aration of on encom	f the substance npasses all lo	es with wer leve	in the manufactur el materials for wi	rer listed it hich the m	tem. No nanufact	te: if the turer has	item is an ass engineering re	embly with lowe esponsibility.
	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information					
Supplier Informatio	n															
Company name*			Company unique ID			Unique ID Authority					Response Date*					
onsemi												2024-05-20				
Contact Name			Title - Contact				Phone - Contact*					Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative			Phone - Representative*				Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Requester Iter	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective D	Date Ve	ersion	Manu	Manufacturing Site		Weight*	¢	UOM	Unit Type
	NLSF457MU		MU3TCG	G Special Function Logic Gate			2024-05-20)		PHM	РНМ		2.04		mg	Each
Manufacturing Pro	ccess Information	l										L			1	I
Terminal Platin	Terminal Plating / Grid Array Material		rminal Base Alloy J-ST		J-STD-020 MS	MSL Rating		Peak Process Body Temperatu		ature M	ure Max Time at Peak Temp		nperature Number of Reflow Cycles		es	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		i) (no C	U Alloy	y 1			260		С	30	30		seconds 3			
Comments									·				<u> </u>			
evel 1 - maximum time a	at peak temperature d	uring sol	dering is 10-3	0 seconds												
or more information re	garding material com	position j	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	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 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 Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.056	mg	Supplier	Silicon (Si)	7440-21-3		0.056	mg
Die Attach Epoxy	0.023	mg		Epoxy resin	proprietary data		0.0149	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.0081	mg
Lead Frame	0.706	mg	Supplier	Tin (Sn)	7440-31-5		0.0018	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0016	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0018	mg
			Supplier	Copper (Cu)	7440-50-8		0.7009	mg
Mold Compound-Black	1.229	mg	Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0922	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0061	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.9771	mg
			Supplier	EpoxyNovolaCresins (Cresolic)	64425-89-4		0.0615	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0922	mg
Plating	0.012	mg	Supplier	Palladium (Pd)	7440-05-3		0.0005	mg
			В	Nickel (Ni)	7440-02-0		0.0113	mg
			Supplier	Gold (Au)	7440-57-5		0.0002	mg
Wire Bond - Au	0.014	mg	Supplier	Gold (Au)	7440-57-5		0.014	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).