IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Decla © Copyright 2005. IPC, Bannockburn international and Pan-American copy		urn, Illinois, All rights reserved under both		This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low 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 Mater				rials and N	ials and Mfg Information					
upplier	r Information														
Company name* Company				pany unique ID			Unique ID Authority				Respon	Response Date*			
onsemi											2024-0	2024-05-18			
ontact N	ame	Title - Contact			I	Phone - Contact*				Email	Email - Contact*				
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	Requester Item Number	Mfr Iten	n Number	Mfr Item Name			Effective Date	Versio	n	Manufacturing Site		Weight*	UOM	Unit Type	
	NJL3281DG PPD NPN BIP		PPD NPN BIPPW	PWR THERM TRAK		2024-05-18 KR8			10737.244	mg	Each				
lanufa	cturing Process Information		Terminal Base	Alloy	STD-020 MS	I Rating	Peak Proc	ess Rody	Temperatu	May Time at Pea	k Temper	ature Numbe	of Reflow Cyc	ples	
3		CU Allov NA			L Kanng	0	Process Body Temperature Max Time at Peak		seconds 3		Lies				
omments	` ′		Alloy	1	11.3					150	13000	nius J			
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or more i	information regarding materia	l composition	nlease refer t	n nage 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), Diisobutyl phthalate (DIBP).										
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 correct to the best of its knowledges 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 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 part shall apply.										
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substance	s per the definition above except for selected exemp	tions 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	-En								

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	0.004	mg	Supplier	Silicon (Si)	7440-21-3		0.004	mg
Die Attach	438.49	mg	A	Lead (Pb)	7439-92-1	7a	416.5655	mg
			Supplier	Tin (Sn)	7440-31-5		21.9245	mg
Lead Frame	6869.64	mg	Supplier	Zinc (Zn)	7440-66-6		6.8696	mg
			Supplier	Iron (Fe)	7439-89-6		6.8696	mg
			Supplier	Copper (Cu)	7440-50-8		6855.9009	mg
Mold Compound-Black	3393.27	mg		Brominated epoxy resin	proprietary data		135.7308	mg
			Supplier	Phenolic Resin	Proprietary Data		173.0568	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		44.1125	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2694.2566	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		346.1133	mg
Plating	34.3	mg	Supplier	Tin (Sn)	7440-31-5		34.3	mg
Wire Bond - Al	1.54	mg	Supplier	Aluminum (Al)	7429-90-5		1.54	mg