Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.						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.									
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Form Type Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ous Materia	ials and Mfg Information				
Supplier	r Information														
Company name* Company unique ID				ique ID	Unique II			que ID Authority				Response Date*			
onsemi												2025-07-18			
Contact N	ame	Title - Contact			1	Phone - Contact*					Email - Contact*				
Product-H	Env-Stewards		Product Envi	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com			
Authorize	d Representative*	Title - Representative			]	Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item  NJL32811		Number Mfr Item Name				Effective Date   Version   Manufacturing Site		ng Site	We	ight*	UOM	Unit Type		
			OG PPD NPN BIPPWR THERM TRAF			AK	2025-07-18 KR8			10737.244		mg	Each		
Manufa	cturing Proccess Informa	tion													
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STE		J-STD-020 MSL	Rating	Peak Proc	Process Body Temperature   Max 7		e Max Tir	ne at Peak	Temperature	Numbe	r of Reflow Cyc	cles
	Matte Tin (Sn) - annealed		CU Alloy NA		NA		0 C		30 seco		seconds	seconds 3			
Comments															
or more i	information regarding material	composition	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), Diisobutyl phthalate (DIBP).											
cadmium, hexavalentchromium, polybrominal contains a RoHS restricted substance inexcess encompass all such components. Supplier certi as of the date that Supplier completes this for Company acknowledges that Supplier may ha independently verified information provided by certification in this paragraph. If the Company	ted biphenyls and/or polybrominated dipheny of an applicable quantity limit, please indicate fies that it gathered the information it provident. Supplier acknowledges that Company will we relied on information provided by others in the supplier agrees that, at a minimum and the Supplier enter into a written agreements ource of the Supplier's liability and the Com-	2011/65/EU and implemented by the laws of the End ethers (each a "RoHS restricted substance") in except the below which, if any, RoHS exemption you believe in this form using appropriate methods to ensure rely on this certification in determining the compliant completing this form, and that Supplier may not have its suppliers have provided certifications regarding ent with respect to the identified part, the terms and capany's remedies for issues that arise regarding information in the content of the content is the content of	sess of the applicable quantity limit identified ab we may apply. If the part is an assembly with low its accuracy and that such information is true an- nce of its products with European Union member ave independently verified such information. Ho their contributions to the part, and those certification conditions of that agreement, including any warr	bove. If a homogeneous material within the part ver level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. It is involved in situations where Supplier has not ations are at least as comprehensive as the ranty rights and/or remedies provided as part of							
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).

<b>Homogeneous Material</b>	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