IPC ASSOCIATION CONNECT ELECTRONICS INDUSTR	Material Compo © Copyright 2005. IP international and Pan-	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 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 Typhttp://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						rials and M	ials and Mfg Information				
Supplier Infor	mation																
Company name* Company uni				y unique ID			Unique ID Authority					Respons	Response Date*				
onsemi			!									2023-06	2023-06-08				
Contact Name			Title - Contact]	Phone - Contact*					Email -	Email - Contact*				
Product-Env-Stev	vards	Product Enviro Compliance				NA					Produc	Product-Env-Stewards@onsemi.com					
uthorized Repre	sentative*	Title - Representative]	Phone - Representative*					Email -	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance				NA				Produc	Product-Env-Stewards@onsemi.com					
Reques	ster Item Number	Mfr Item	em Number Mfr Item Name				Effective Da	e Date Version		Manufacturing Site			Weight*		UOM	Unit Type	
		NCV84160I		50DR2G 160mOhm SmartFET			2023-06-08 PH1			72.0			mg	Each			
Janufacturing	g Proccess Informat	ion		,													
Termina	al Plating / Grid Array Material		Terminal Base Alloy J		J-STD-020 M	ISL Rating	Peak Pro	Peak Process Body Temperature		ure Ma	re Max Time at Peak Temper		ure	Number	of Reflow Cyc	les	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 3		3		260		С	30 seco		secon	ds	3			
Comments																	
TTENTION: MS	SL 3 Rated item requires	Bake and D	Pry Pack (after	r electrical test)													
or more informa	tion regarding material o	composition	please refer to	page 3													

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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 is true and correct to the best of its knowledge 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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided 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 * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	cceptance *	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											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the						

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	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg
Die Attach	2.4	mg		Epoxy resin	proprietary data		0.24	mg
			Supplier	Ethylene dimethacrylate	97-90-5		0.12	mg
			Supplier	Silver (Ag)	7440-22-4		1.92	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.12	mg
Lead Frame	38.953	mg	Supplier	Silver (Ag)	7440-22-4		0.818	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0779	mg
			Supplier	Iron (Fe)	7439-89-6		0.9738	mg
			Supplier	Copper (Cu)	7440-50-8		37.0833	mg
Mold Compound-Black	28.58	mg		Epoxy resin	proprietary data		2.1435	mg
			Supplier	Phenolic Resin	Proprietary Data		0.7145	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.1435	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1429	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		23.4356	mg
Plating	0.547	mg	Supplier	Palladium (Pd)	7440-05-3		0.0383	mg
			В	Nickel (Ni)	7440-02-0		0.4978	mg
			Supplier	Gold (Au)	7440-57-5		0.0109	mg
Wire Bond - Au	0.19	mg	Supplier	Gold (Au)	7440-57-5		0.19	mg