Material Composition Declaratio © Copyright 2005. IPC, Bannockburn, Illir international and Pan-American copyright				burn, Illinois. A	rn, 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 lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
1752-21.1	IDC Web Site for Information on IDC 1752 Stand				dard Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information						ı			
Supplier	r Informa	tion															
Company name*				Company un	Company unique ID			Unique ID Authority					Response Date*				
onsemi														2024-05-19			
Contact Na	ame			Title - Contac	Title - Contact				Phone - Contact*					Email - Contact*			
Product-E	Product-Env-Stewards				Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
Authorized	Authorized Representative*				Title - Representative			Phone - Representative*					Email - Representative*				
Product-E	Product-Env-Stewards				Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item			Number Mfr Item Name				Effective Da	te Ver	rsion	Manufacturing Site		V	Weight*	UOM	Unit Type	
	NCV841			60DR2G 160mOhm SmartFET				2024-05-19			PH1		7	72.0	mg	Each	
Manufacturing Process Information																	
Terminal Plating / Grid Array Material T			Terminal Base Alloy J-STD-020		J-STD-020 MS	L Rating	Peak Process Body		ody Temperat	y Temperature Max Time at Peak		Temperature Number of Re		of Reflow Cycles			
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 3		3		260		C	C 30		second	ds 3	3			
Comments																	
ATTENTION: MSL 3 Rated item requires Bake and Dry Pack (after electrical test)																	
For more information regarding material 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 information provided 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	ceptance *	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 recruired 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	Silver (Ag)	7440-22-4		1.92	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.24	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