ASSOCIATION CONNECTION ELECTRONICS INDUSTRIE	Material Com © Copyright 2005. international and Pa	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				pe * Declaration Class * e Class 6 - RoHS Yes/No, Homogeneous Mater						rials and M	ials and Mfg Information				
Supplier Inform	nation																
Company name* Company unique ID				ique ID		Unique ID Authority					Respons	Response Date*					
onsemi												2023-06-08					
Contact Name		Title - Conta	Title - Contact			Phone - Contact*					Email -	Email - Contact*					
Product-Env-Stew	ards	Product Enviro Compliance				NA NA					Product-Env-Stewards@onsemi.com						
				Title - Representative			Phone - Representative*					Email -	Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com					
Request	ter Item Number Mfr Item Number NCV7719DQR		m Number Mfr Item Name				Effective Da	ate V	Version M		Manufacturing Site		Weigh	nt*	UOM	Unit Type	
			19DQR2G	QR2G Automotive Driver			2023-06-08		PH1			168.51		mg	Each		
<b>Manufacturing</b>	<b>Process Informa</b>	ation															
Terminal	Plating / Grid Array Material		Terminal Base Alloy J		J-STD-020 M	ISL Rating	Peak Pro	Peak Process Body Temperature		ture N	re Max Time at Peak Temper		rature Number of Reflow Cycles		les		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 2		2		260		C		30 seco		ıds	3			
Comments																	
ATTENTION: MS	L 2 Rated item requir	es Dry Pack (	after electrica	l test)													
For more informat	ion regarding materia	l 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 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 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 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 Sta												
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	5.91	mg	Supplier	Silicon (Si)	7440-21-3		5.91	mg
Die Attach	1.2	mg	Supplier	Silver (Ag)	7440-22-4		0.9	mg
			Supplier	Epoxy resins	129915-35-1		0.3	mg
Lead Frame	60.56	mg	Supplier	Zinc (Zn)	7440-66-6		0.0606	mg
			Supplier	Iron (Fe)	7439-89-6		1.3929	mg
			Supplier	Copper (Cu)	7440-50-8		59.046	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0606	mg
Mold Compound-Black	99.39	mg		Epoxy resin	proprietary data		7.4543	mg
			Supplier	Phenolic Resin	Proprietary Data		2.4848	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		7.4543	mg
			Supplier	Carbon Black (C)	1333-86-4		0.497	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		81.4998	mg
Plating	0.47	mg	Supplier	Palladium (Pd)	7440-05-3		0.0113	mg
			В	Nickel (Ni)	7440-02-0		0.4136	mg
			Supplier	Gold (Au)	7440-57-5		0.0451	mg
Wire Bond - Au	0.98	mg	Supplier	Gold (Au)	7440-57-5		0.98	mg