IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder 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.								
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				Materials and	ials and Mfg Information			
uppliei	r Information													
Company name*				Company unique ID			Unique ID Authority				Response Date*			
n Semico	onductor										2021-02-04			
Contact Name			Title - Contact			F	Phone - Contact*				Email - Contact*			
?roduct-I	Env-Stewards		Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
uthorize	d Representative*	Title - Representative			F	Phone - Representative*			Email	Email - Representative*				
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	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Version	Manufacturing S	Manufacturing Site		UOM	Unit Type	
		FQP13N	FQP13N10L QF 100V 180mOhm		m L TO220		2021-02-04		СРА	СРА		mg	Each	
lanufa	cturing Process Inform		Terminal Base	Allov	-STD-020 MSI	Dating	Pools Propo	as Pody Tom	perature Max Time at	Pools Tompo	notives Number	er of Reflow Cy	olog	
	8		CU Allov NA			L Kanng	0	C C	30	1	onds 3	er of Kerlow Cy	cies	
omments	, ,		Andy		in.				130	sec	onus 3			
omments	)													
m more	information regarding materia	al composition	nlesse refer to	naga 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 (100 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 keloartion shall encompass all such 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, itssuppliers 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 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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.										
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	2.81	mg	Supplier	Silicon (Si)	7440-21-3		2.81	mg
Die Attach Solder	1.111	mg	Supplier	Silver (Ag)	7440-22-4		0.0278	mg
			A	Lead (Pb)	7439-92-1	7a	1.0277	mg
			Supplier	Tin (Sn)	7440-31-5		0.0555	mg
Lead Frame	1492.12		В	Nickel (Ni)	7440-02-0		0.1492	mg
			Supplier	Iron (Fe)	7439-89-6		1.4921	mg
			Supplier	Copper (Cu)	7440-50-8		1490.031	mg
			Supplier	Phosphorus (P)	7723-14-0		0.4476	mg
Mold Compound-Black	518.4		В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		10.368	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		44.064	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		7.776	mg
			Supplier	Carbon Black (C)	1333-86-4		2.592	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		414.72	mg
			Supplier	Silica (SiO2)	14464-46-1		5.184	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		33.696	mg
Plating	13.3	mg	Supplier	Tin (Sn)	7440-31-5		13.3	mg
Wire Bond - Al	2.44	mg	Supplier	Aluminum (Al)	7429-90-5		2.44	mg