IPC - ASSOCIATION CONNECTION ELECTRONICS INDUSTRIES	© Copyright 2005. II	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.								
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi					als and Mf	g Informati	ion	
upplier Inforr	nation								,					
Company name*			Company unique ID			τ	Unique ID Authority				Response Date*			
onsemi											2023-06-08			
Contact Name			Title - Contact			P	Phone - Contact*				Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			I	NA				Product-Env-Stewards@onsemi.com			
Authorized Representative*			Title - Representative			P	Phone - Representative*			Email - Representative*				
Product-Env-Stewards			Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com			
Request	ter Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	N	Manufacturing Site		eight*	UOM	Unit Type
		FODM217		7CR2 4SO TR T&R			2023-06-08		LITEONFG		5′	7.322	mg	Each
	Process Informat		ampinal Daga	Allow	CTD 020 MCI	Dating	Dools Droo	aga Dady Ta		May Time at Book	Tommoroto	uo Nyumb	or of Defloy, Cyc	laa
			Terminal Base Alloy J-ST CU Alloy 1		STD-020 MSL	Kating	Peak Process Body Ter		mperatur	max Time at Peak Te 30			er of Reflow Cyc	ries
•	in (Sn) - annealed	C	U Alloy	I			200		<u>  C</u>	30	second	s 3		
omments	4:		J!_ 10 1	20										
	time at peak temperatu													
<i>r</i> more informat	ion regarding material	composition <b>j</b>	please refer to	o page 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	ed					
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 correction that such information is true and correction 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 has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers 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 have provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability 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 Standard Terms and Conditions of Sale applicable to such part shall apply.										
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	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										
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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
Coupling Gel	2.0	mg	Supplier	Filler (SiO2)	68909-20-6		0.4	mg
			Supplier	Dimethyl Siloxane	68083-19-2		1.6	mg
Die	0.16	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0518	mg
			Supplier	Silicon (Si)	7440-21-3		0.1051	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0031	mg
Die Attach Epoxy	0.48	mg	Supplier	Silver (Ag)	7440-22-4		0.408	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0312	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0096	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0312	mg
Lead Frame	21.956	mg	Supplier	Zinc (Zn)	7440-66-6		0.0263	mg
			Supplier	Iron (Fe)	7439-89-6		0.516	mg
			Supplier	Copper (Cu)	7440-50-8		21.4071	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0066	mg
Mold Compound-Black	18.1	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.353	mg
			Supplier	Carbon Black (C)	1333-86-4		0.181	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		1.629	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		12.67	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.267	mg
Mold Compound-White	14.126	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.8252	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9.8882	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.4126	mg
Plating	0.1	mg	Supplier	Tin (Sn)	7440-31-5		0.1	mg
Wire Bond - Au	0.4	mg	Supplier	Gold (Au)	7440-57-5		0.4	mg