IPC ASSOCIATION ELECTRONIC	Material Compo © Copyright 2005. IF cs INDUSTRIES® international and Pan	PC, Bannockb	urn, Illinois. A	all rights reserved untions.	nder both	This docume level parts, t	ent is a declaration	ation of	f the substances mpasses all lowe	within the r level ma	e manufactur terials for w	rer listed it hich the m	em. Note: anufacture	if the item is an as er has engineering	sembly with lowe responsibility.
1752-21.1	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					als and M	fg Informa	ition			
Supplie	r Information														
Company name* Company unique ID					Unique ID Authority					Response Date*					
onsemi											2023-06-08				
Contact N	Vame	Title - Contact			1	Phone - Contact*				Email - Contact*					
Product-l	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorize	ed Representative*	Title - Representative]	Phone - Representative*				Email - Representative*					
Product-1	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date Version Manuf		Manufactu	nufacturing Site Weigh		Weight*	UOM	Unit Type	
		QRD1113 4L R		4L REFLECT SNSR		2023-06-08		1	LITEONFG		ç	10.051	mg	Each	
Manufa	ecturing Process Informat	ion					1								,
	Terminal Plating / Grid Array Material Te		erminal Base Alloy J-STD-02		-STD-020 MSL	Rating	Peak Process Body Tempe		Body Temperatu	ature Max Time at Peak T		Temperat	ure Num	ber of Reflow Cyc	eles
	Matte Tin (Sn) - annealed CU		CU Alloy NA			0 C		30 seco		secon	ds 3				
Comments	S														
or more	information regarding material of	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 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 has 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 applic											
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	1.5	mg	Supplier	Silicon (Si)	7440-21-3		1.5	mg
Die Attach	1.551	mg	Supplier	Silver (Ag)	7440-22-4		1.085	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.233	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.233	mg
Housing	540.0	mg	Supplier	Polycarbonate	25037-45-0		540	mg
Lead Frame	280.0	mg	Supplier	Sulfur (S)	7704-34-9		2.24	mg
			Supplier	Carbon (C)	7440-44-0		11.2	mg
			Supplier	Silver (Ag)	7440-22-4		1.4	mg
			Supplier	Manganese (Mn)	7439-96-5		64.4	mg
			Supplier	Iron (Fe)	7439-89-6		196	mg
			Supplier	Phosphorus (P)	7723-14-0		4.76	mg
Mold Compound-Black	51.0	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		5.1	mg
			Supplier	Carbon Black (C)	1333-86-4		0.51	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		45.39	mg
Plating	32.5	mg	Supplier	Tin (Sn)	7440-31-5		32.5	mg
Wire Bond - Au	3.5	mg	Supplier	Gold (Au)	7440-57-5		3.5	mg