IPC ASSOCIATION ELECTRONICS	Material Com © 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 lowel 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				e *	* Declaration Class * Class 6 - RoHS Yes/No. Homogeneous Materi				Mfg Informati	on		
upplier	r Information													
Company name* Compan				pany unique ID			Unique ID Authority				Response Date*			
nsemi											2023-06-08			
ontact Na	ame	Title - Conta	Title - Contact			Phone - Contact*				Email - Contact*				
Product-E	Env-Stewards		Product Enviro Compliance]	NA			Prod	Product-Env-Stewards@onsemi.com			
uthorized	d Representative*	Title - Representative			I	Phone - Representative*			Email	Email - Representative*				
roduct-E	Env-Stewards	Product Enviro Compliance			1	NA			Prod	Product-Env-Stewards@onsemi.com				
	Requester Item Number Mf		fr Item Number Mfr Item Name				Effective Date	Version	Manufacturing S	Manufacturing Site		UOM	Unit Type	
		QSE159 PHOTOLOGIC S-LC		LOOK INV		2023-06-08		CP6		144.017	mg	Each		
	cturing Process Informa		Farminal Daga	Aller	-STD-020 MS	I. Dating	Dook Droop	as Dody Town	erature Max Time at	Pack Tompo	Nymah Nymah	er of Reflow Cy	olog	
			Terminal Base Alloy J-STD- CU Alloy NA			L Kaung	0	C C	30	1	onds 3	er of Reflow Cy	cies	
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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 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 knowledges 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 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 Standard Terms and Conditions of Sale applicable to su											
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
Die	0.65	mg	Supplier	Silicon (Si)	7440-21-3		0.65	mg
Die Attach	0.611		Supplier	Silver (Ag)	7440-22-4		0.427	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.092	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.092	mg
Lead Frame	90.816		Supplier	Sulfur (S)	7704-34-9		0.725	mg
			Supplier	Carbon (C)	7440-44-0		3.624	mg
			Supplier	Silver (Ag)	7440-22-4		0.453	mg
			Supplier	Manganese (Mn)	7439-96-5		2.084	mg
			Supplier	Iron (Fe)	7439-89-6		82.174	mg
			Supplier	Copper (Cu)	7440-50-8		0.216	mg
			Supplier	Phosphorus (P)	7723-14-0		1.54	mg
Mold Compound-Black	20.0	mg	Supplier	Phenolic Resin-2	54208-63-8		10	mg
-			Supplier	Ortho Cresol Novolac Resin	29690-82-2		10	mg
Plating	29.8	mg	Supplier	Tin (Sn)	7440-31-5		29.8	mg
Wire Bond - Au	2.14	mg	Supplier	Gold (Au)	7440-57-5		2.14	mg