IPC ASSOCIATION ELECTRONICS	Material Com © Copyright 2005 international and F	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 lowe 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 Mater					us Materia	als and Mf	g Informati	on	
upplier	Information														
Company name* Company unique ID						Unique ID Authority					Response Date*				
nsemi												2024-06-05			
Contact Na	ame		Title - Conta	act		Phone - Contact*						Email - Contact*			
Product-E	nv-Stewards		Product Env	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Repr				presentative 1			Phone - Representative*				Email - Representative*				
Product-E	nv-Stewards	Product Env	Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com				
	Requester Item Number	Mfr Iten	Mfr Item Number Mfr Item Name		;		Effective Date	Versi	on	Manufacturing Site		W	eight*	UOM	Unit Type
		QEE123 LED S-LOOK AL		GAAS		2024-06-05	24-06-05 LITEONFG				14	14.017	mg	Each	
	eturing Process Inform		r . 1D	A.11	CTD 020 MC	и. р. с	D 1 D	D. I	T	M T	4 D. 1.5	T.	N. I	CD G C	
	• •		Terminal Base Alloy J-STD-020 M3 CU Alloy NA		L Rating	Peak Process Body Temperature M  O C 30			ie at Peak			er of Reflow Cyc	cles		
	Matte Tin (Sn) - annealed		CU Alloy	IN	A		U			30		second	s  3		
omments															
<u>.</u>	nformation regarding materi	-1	1 £ 4	2											

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 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											
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).

<b>Homogeneous Material</b>	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