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.									
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 Materia					als and Mfg	als and Mfg Information				
Supplier	Information														
Company name*				Company unique ID			Unique ID Authority					Response Date*			
onsemi												2024-05-19			
Contact N	ame	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*				
Product-E	Env-Stewards		Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Authorized	d Representative*	Title - Representative				Phone - Representative*				Email - Representative*					
Product-E	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date	ate Version Manufacturing Site		We	ight*	UOM	Unit Type		
		QED223	QED223 LED T		ED T13-4 ALGAAS		2024-05-19			СР6		28.	987	mg	Each
Manufa	cturing Proccess Informat	tion													
	Terminal Plating / Grid Array Material T		Terminal Base Alloy J-STI		J-STD-020 MSL	Rating	Peak Pro	Process Body Temperature		re Max Time at Peak Tempera		Temperature	Numb	er of Reflow Cyc	les
	Matte Tin (Sn) - annealed		CU Alloy NA		NA		0		С	30		seconds	3		
Comments															
For more i	information regarding material	composition	please refer to	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 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 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 provided as part of that agreement, will be the sole and exclusivesource of the 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
Die	0.026	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0101	mg
			Supplier	Silicon (Si)	7440-21-3		0.0159	mg
Die Attach	0.55	mg	Supplier	Silver (Ag)	7440-22-4		0.44	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.11	mg
Lead Frame	10.35		Supplier	Silver (Ag)	7440-22-4		0.021	mg
			Supplier	Tin (Sn)	7440-31-5		0.062	mg
			Supplier	Copper (Cu)	7440-50-8		10.267	mg
Mold Compound-Black	9.035		Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.01	mg
			Supplier	2,4,6-Tris[Bis(Methoxymethyl)Amino]-1,3,5-Triazine	3089-11-0		9.025	mg
Plating	9.025	mg	Supplier	Tin (Sn)	7440-31-5		9.025	mg
Wire Bond - Au	0.001	mg	Supplier	Gold (Au)	7440-57-5		0.001	mg