

 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 http://www.ipc.org/IPC-175x			Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information			
Supplier Information										
Company name* onsemi			Company unique ID		Unique ID Authority			Response Date* 2024-05-21		
Contact Name Product-Env-Stewards			Title - Contact Product Enviro Compliance		Phone - Contact* NA			Email - Contact* Product-Env-Stewards@onsemi.com		
Authorized Representative* Product-Env-Stewards			Title - Representative Product Enviro Compliance		Phone - Representative* NA			Email - Representative* Product-Env-Stewards@onsemi.com		
	Requester Item Number	Mfr Item Number	Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
		NOIL1SN3000A-GDC	LUPA3000 MONO ML PGA369		2024-05-21		THA	10119.98	mg	Each
Manufacturing Process Information										
	Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		Number of Reflow Cycles	
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)	CU Alloy	NA		0	C	30	seconds	3	
Comments										
For more information regarding material composition please refer to page 3										

RoHS Material Composition Declaration		Declaration Type *	Detailed
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).		
<p>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 in excess 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 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 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 exclusive source 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.</p>			
RoHS Declaration *	1 - Item(s) does not contain RoHS restricted substances per the definition above		Supplier Acceptance * 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			
Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.			
Supplier Digital Signature	Rastislav Drska		

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
Ceramic Substrate	8567.86	mg	Supplier	Cobalt (Co)	7440-48-4		99.3872	mg
			Supplier	Silver (Ag)	7440-22-4		57.4047	mg
			Supplier	Molybdenum (Mo)	7439-98-7		27.4172	mg
			Supplier	Tungsten (W)	7440-33-7		289.5937	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		580.0441	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		6854.2886	mg
			B	Nickel (Ni)	7440-02-0		189.3497	mg
			Supplier	Gold (Au)	7440-57-5		33.4147	mg
			Supplier	Iron (Fe)	7439-89-6		313.5837	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		113.0958	mg
			Supplier	Copper (Cu)	7440-50-8		10.2814	mg
Die	149.72	mg	Supplier	Silicon (Si)	7440-21-3		149.72	mg
Die Attach	70.85	mg	Supplier	Silver (Ag)	7440-22-4		53.1375	mg
			Supplier	Epoxy resins	129915-35-1		17.7125	mg
Glass Attach Epoxy	154.81	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		47.9447	mg
			Supplier	4,4'-Diaminodiphenyl Sulfone (DDS-4,4')	80-08-0		8.0192	mg
			Supplier	Filler (SiO2?C2H6Cl2Si)	68611-44-9		54.1835	mg
			Supplier	Carbon Black (C)	1333-86-4		3.8702	mg
			Supplier	Additive	1760-24-3, 2530-83-8		40.7924	mg
Glass Lid /Cap	1173.01	mg	Supplier	Boron Trioxide (B2O3)	1303-86-2		123.166	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		599.4081	mg
			Supplier	Barium Monoxide (BaO)	1304-28-5		112.609	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		112.609	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		225.2179	mg
Wire Bond - Al	3.73	mg	Supplier	Aluminum (Al)	7429-90-5		3.73	mg