

 <b>Material Composition Declaration</b> © 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 <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>			Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information			
<b>Supplier Information</b>										
<b>Company name*</b> onsemi			Company unique ID		Unique ID Authority			<b>Response Date*</b> 2024-05-16		
<b>Contact Name</b> Product-Env-Stewards			Title - Contact Product Enviro Compliance		<b>Phone - Contact*</b> NA			<b>Email - Contact*</b> Product-Env-Stewards@onsemi.com		
<b>Authorized Representative*</b> Product-Env-Stewards			Title - Representative Product Enviro Compliance		<b>Phone - Representative*</b> NA			<b>Email - Representative*</b> Product-Env-Stewards@onsemi.com		
	Requester Item Number	Mfr Item Number	Mfr Item Name		Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
		AR0221SR2C00SUEA 0-DPBR	2MP 1/2 CIS SO		2024-05-16		MY5	268.19	mg	Each
<b>Manufacturing Process Information</b>										
	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	
	SnAgCu	CU Alloy	4		260 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
<b>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.</b>			
Exemption List Version	EL-2011/534/EU		
Declaration Signature			
<b>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.</b>			
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
Die	43.2	mg		Misc.	proprietary data		0.1642	mg
			Supplier	Silicon (Si)	7440-21-3		42.6082	mg
			Supplier	Aluminum (Al)	7429-90-5		0.4277	mg
Die Attach	3.73	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		1.3988	mg
			Supplier	Ethylene Glycol	107-21-1		0.0373	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.1119	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.7833	mg
			Supplier	Formaldehyde Polymer	9003-36-5		1.3988	mg
Imaging Lens	37.97	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.9984	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.9984	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.9984	mg
			B	Antimony Trioxide (Sb2O3)	1309-64-4		0.2001	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.9984	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.9984	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		27.7781	mg
Lid Attach	1.95	mg	Supplier	2-phenoxy ethyl acrylate	48145-04-6		0.8775	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.39	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.2438	mg
			Supplier	Acrylate Oligomer	Proprietary Data		0.0098	mg
			Supplier	Curative	Proprietary Data		0.039	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.39	mg
Mold Compound-Black	87.47	mg		Phenolic Resin	proprietary data		13.1205	mg
			Supplier	Oxirane	39817-09-9		13.1205	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		2.6241	mg
			Supplier	Carbon Black (C)	1333-86-4		0.8747	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		55.9808	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.7494	mg
Solder Ball	40.84	mg	Supplier	Silver (Ag)	7440-22-4		1.2252	mg
			Supplier	Tin (Sn)	7440-31-5		39.4106	mg
			Supplier	Copper (Cu)	7440-50-8		0.2042	mg
Substrate and Solder Mask	52.64	mg	Supplier	Bis(3-ethyl-5-methyl-4-maleimidophenyl)methane	105391-33-1		0.5896	mg

			Supplier	Fiber Glass (SiO2)	65997-17-3		6.8221	mg
			Supplier	Zinc (Zn)	7440-66-6		0.079	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		1.2265	mg
			Supplier	Cyanic acid (1-methylethylidene)di-4,1-phenylene ester homopolymer	25722-66-1		0.5896	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.3053	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0053	mg
			Supplier	Acetophenone Derivative	Proprietary Data		1.8371	mg
			Supplier	Carbon Black (C)	1333-86-4		0.3053	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8		0.3053	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		6.3168	mg
			B	Nickel (Ni)	7440-02-0		0.7422	mg
			Supplier	Gold (Au)	7440-57-5		0.0263	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5		3.6795	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.5896	mg
			Supplier	Copper (Cu)	7440-50-8		19.7189	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7		9.5015	mg
Wire Bond - Au	0.39	mg	Supplier	Gold (Au)	7440-57-5		0.39	mg