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 Distribute									
Supplier	Information													
Company name*			Company uni	Company unique ID			Unique ID Authority				Response Date*			
onsemi										2024-04-19				
Contact N	ame	Title - Contac	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-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date	Version	Manufacturing Site	Manufacturing Site		UOM	Unit Type	
	ARRAYRDM- 0112A20-QFN-TR		RDM Array, 1x12	x12, 20um, QFN		2024-04-19		TWU	TWU		mg	Each		
Manufacturing Proccess Information														
	Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MS			ting Peak Process Body Temperature Max Time at Pea			eak Temper	k Temperature Number of Reflow Cycles			
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn) CU Alloy 3		3		260 C 30		30	seconds 3						
Comments														
ATTENTION: MSL 3 Rated item requires Bake and Dry Pack (after electrical test)														
For more information regarding material composition please refer to page 3														

RoHS Material Composition Declaration			Declaration Type *	Detail	led					
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 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 uppliers 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 Terms and Conditions of Sale appli										
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	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										
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the					
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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	27.663	mg	Supplier	Silicon (Si)	7440-21-3		27.663	mg
Glass Attach Epoxy	0.837	mg	Supplier	4-Thiophenyl phenyl diphenyl sulfonium hexafluoroantimonate	71449-78-0		0.0042	mg
			Supplier	3,4-EPOXYCYCLOHEXYLMETHYL	2386-87-0		0.8328	mg
Imaging Lens	23.684	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		1.1842	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		1.1842	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		1.1842	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		1.1842	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.1184	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1.1842	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		1.1842	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		16.4604	mg
Laminate Tape	27.038	mg		Epoxy resin	proprietary data		2.7038	mg
			Supplier	Phenol Resin	Proprietary Data		2.7038	mg
			Supplier	Acrylic Copolymer	Proprietary Data		18.9266	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2.7038	mg
Lead Frame	75.901	mg	Supplier	Zinc (Zn)	7440-66-6		0.0911	mg
			Supplier	Iron (Fe)	7439-89-6		1.7837	mg
			Supplier	Copper (Cu)	7440-50-8		74.0035	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0228	mg
Mold Compound-Black	90.726	mg	Supplier	Carbon Black (C)	1333-86-4		0.4536	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		79.8389	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		5.8972	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		4.5363	mg
Plating	1.045	mg	Supplier	Palladium (Pd)	7440-05-3		0.0448	mg
			В	Nickel (Ni)	7440-02-0		0.9853	mg
			Supplier	Gold (Au)	7440-57-5		0.0148	mg
Wire Bond - Au	0.223	mg	Supplier	Gold (Au)	7440-57-5		0.223	mg