ASSOCIATION CONNECT	© Copyright 2005. IP	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.										
752-21.1		IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute									ıs Materia	als and Mf	g Informa	tion		
Supplier Info	rmation						·									
Company name*			Company unique ID			ī	Unique ID Authority					Response Date*				
onsemi													2024-05-02			
Contact Name		Title - Contact			I	Phone - Contact*					Email - Contact*					
Product-Env-Ste	wards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com					
uthorized Repre	esentative*	Title - Representative			I	Phone - Representative*				Email - Representative*						
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	ster Item Number			m Number Mfr Item Name			Effective Date	e Versio	n I	Manufacturing Site		W	eight*	UOM	Unit Type	
				3Pair 5Gps CMF	MF 0.5P		2024-05-02		1	MY1		7.	831	mg	Each	
Ianufacturin	g Proccess Informati	ion														
Termin	al Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 M	STD-020 MSL Rating		Peak Process Body Temperatu		re Max Time at Peak Temper		Temperatu	rature Number of Reflow Cycles		eles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		lAu) (no	CU Alloy		1		260		С	30	seco		s 3			
comments																
vel 1 - maximun	n time at peak temperatur	e during so	ldering is 10-3	30 seconds												
or more informa	ation regarding material c	omposition	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 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 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 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.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	ceptance *	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	0.524	mg	Supplier	Silicon (Si)	7440-21-3		0.524	mg
Die Attach Tape	0.045	mg		Epoxy resin	proprietary data		0.0045	mg
			Supplier	Hardener	Proprietary Data		0.0005	mg
			Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0058	mg
			Supplier	Other Additive Agents	Proprietary Data		0.0009	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.0333	mg
Lead Frame	3.098	mg	Supplier	Magnesium (Mg)	7439-95-4		0.0046	mg
			Supplier	Silicon (Si)	7440-21-3		0.0201	mg
			В	Nickel (Ni)	7440-02-0		0.0929	mg
			Supplier	Copper (Cu)	7440-50-8		2.9803	mg
Mold Compound-Black	3.666	mg		Epoxy resin	proprietary data		0.1833	mg
			Supplier	Phenolic Resin	Proprietary Data		0.0367	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.5499	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0183	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		2.8778	mg
Plating	0.495	mg	Supplier	Silver (Ag)	7440-22-4		0.0075	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0175	mg
			В	Nickel (Ni)	7440-02-0		0.4597	mg
			Supplier	Gold (Au)	7440-57-5		0.0102	mg
Wire Bond - Au	0.003	mg	Supplier	Gold (Au)	7440-57-5		0.003	mg