ASSOCIATION CONNEC	© Copyright 2005. IPC.	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													
upplier Info	rmation														
Company name* Company unique ID				Unique ID Authority			Respon	Response Date*							
nsemi											2023-0	6-08			
Contact Name			Title - Contac	- Contact I			Phone - Contact*				Email	Email - Contact*			
Product-Env-Ste	ewards		Product Envi	oduct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative*  Title - Representative			sentative	Phone - Represent			ntative*	tative* Email			ail - Representative*				
Product-Env-Ste	ewards		Product Envi	ro Compliance	ompliance		NA			Produ	Product-Env-Stewards@onsemi.com				
Reque	ester Item Number	Mfr Item	n Number Mfr Item Name				Effective Date Version		M	Manufacturing Site		Weigh	ht*	UOM	Unit Type
		NCH-RSL10-101S51- RSL10 SIP ACG				2023-06-08 KR9			316.95	53	mg	Each			
Ianufacturir	ng Proccess Informatio	n													
Termi	Terminal Plating / Grid Array Material Terminal Base		Terminal Base A	Alloy	J-STD-020 MSL Rating		Peak Process Body Temp		mperature	ature Max Time at Peak		Temperature Number of Reflow Cycles		eles	
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy	U Alloy 3			260		С	30		nds	3			
Comments								•		•	•				
TTENTION: M	ISL 3 Rated item requires B	ake and D	ry Pack (after	electrical test)											
	ation regarding material co														

RoHS Material Composition Declaration			Declaration Type *	Detail	ed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a		
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of
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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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
Antenna	0.634	mg	Supplier	Silver (Ag)	7440-22-4		0.0607	mg
			Supplier	Tin (Sn)	7440-31-5		0.0138	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0441	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.2539	mg
			Supplier	Barium Monoxide (BaO)	1304-28-5		0.0586	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.1918	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		0.0042	mg
			В	Nickel (Ni)	7440-02-0		0.0069	mg
Capacitor	1.65	mg	Supplier	Boron Trioxide (B2O3)	1303-86-2		0.0081	mg
			Supplier	Tin (Sn)	7440-31-5		0.1	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		0.5349	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.032	mg
			Supplier	Misc.	Proprietary Data		0.1069	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		0.428	mg
			В	Nickel (Ni)	7440-02-0		0.08	mg
			Supplier	Copper (Cu)	7440-50-8		0.36 r	mg
Capacitor-2	3.496	mg	Supplier	Tin (Sn)	7440-31-5		0.0951	mg
			В	Nickel (Ni)	7440-02-0		0.6181	mg
			Supplier	Barium Titanate (BaO3Ti)	12047-27-7		2.4021	mg
			Supplier	Copper (Cu)	7440-50-8		0.3807	mg
Capacitor-3	2.11	mg	Supplier	Tin (Sn)	7440-31-5		0.0527	mg
			В	Nickel (Ni)	7440-02-0		0.2901	mg
			Supplier	Barium Titanate (BaO3Ti)	12047-27-7		1.7144	mg
			Supplier	Copper (Cu)	7440-50-8		0.0527	mg
Die	5.126	mg	Supplier	Silicon (Si)	7440-21-3		5.126	mg
Inductor	6.125	mg	Supplier	Tin oxide (SnO2)	18282-10-5		0.0466	mg
			Supplier	Copper(II) Oxide (CuO)	1317-38-0		0.419	mg
			Supplier	Silver (Ag)	7440-22-4		2.7484	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		0.4237	mg
			Supplier	Tin (Sn)	7440-31-5		0.3826	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		0.419	mg
			В	Bismuth Trioxide (Bi2O3)	1304-76-3		0.0466	mg

			Supplier	Zinc Monoxide (ZnO)	1314-13-2	0.8845	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	0.7549	mg
			Supplier	Misc.	Proprietary Data	-1.4005	mg
			Supplier	Iron Trioxide (Fe2O3)	1309-37-1	-1.4567	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1	-4.2031	mg
			В	Nickel (Ni)	7440-02-0	-5.7457	mg
			Supplier	Cobalt Oxide (CoO)	1307-96-6	-6.0688	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7	-6.0784	mg
Mold Compound	104.617	mg		Epoxy resin	proprietary data	9.5787	mg
r		8	Supplier	Phenolic Resin	Proprietary Data	6.3858	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	31.9275	mg
			Supplier	Carbon Black (C)	1333-86-4	0.3193	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2	3.1928	mg
			Supplier	Fused Silica (SiO2)	60676-86-0	53.2128	mg
Resistor	2.34	mg	The state of the s	Silicone Resin	proprietary data	0.006	mg
		8	Supplier	Cobalt (Co)	7440-48-4	0.088	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7	0.012	mg
			Supplier	Silver (Ag)	7440-22-4	0.116	mg
			Supplier	Tin (Sn)	7440-31-5	0.005	mg
			Supplier	Molybdenum (Mo)	7439-98-7	0.009	mg
			Supplier	Tungsten (W)	7440-33-7	0.292	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4	0.006	mg
			Supplier	Chromium (Cr)	7440-47-3	0.0001	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1	1.0979	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8	0.004	mg
			В	Nickel (Ni)	7440-02-0	0.261	mg
			Supplier	Gold (Au)	7440-57-5	0.0131	mg
			Supplier	Iron (Fe)	7439-89-6	0.213	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9	0.047	mg
			Supplier	Copper (Cu)	7440-50-8	0.065	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7	0.105	mg
Shield	2.447	mg	Supplier	Copper (Cu)	7440-50-8	2.447	mg
Shield-2	2.026	mg	Supplier	White Phosphorus	12185-10-3	0.01	mg
			Supplier	Sulfur (S)	7704-34-9	0.01	mg
			Supplier	Carbon (C)	7440-44-0	0.1504	mg
			Supplier	Chromium (Cr)	7440-47-3	0.351	mg
			Supplier	Manganese (Mn)	7439-96-5	0.01	mg
			Supplier	Silicon (Si)	7440-21-3	0.0301	mg
			В	Nickel (Ni)	7440-02-0	1.4543	mg
			Supplier	Iron (Fe)	7439-89-6	0.01	mg

Solder Ball	1.912	mg	Supplier	Silver (Ag)	7440-22-4	0.0574	mg
			Supplier	Tin (Sn)	7440-31-5	1.8451	mg
			Supplier	Copper (Cu)	7440-50-8	0.0096	mg
Substrate	178.1	mg		Epoxy resin	proprietary data	2.3176	mg
			Supplier	copper	7440-66-6	36.5586	mg
			Supplier	Cured Thermosetting Resin	Proprietary Data	67.7653	mg
			Supplier	Talc	14807-96-6	1.3906	mg
			Supplier	Phosphinoxide Derivative	Proprietary Data	1.3906	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3	49.4318	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9	5.0988	mg
			Supplier	Palladium (Pd)	7440-05-3	0.2135	mg
			В	Nickel (Ni)	7440-02-0	4.8057	mg
			Supplier	Gold (Au)	7440-57-5	0.3204	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	8.807	mg
Underfill	6.37	mg	Supplier	2,3-epoxypropyl neodecanoate	26761-45-5	0.1593	mg
			Supplier	3,4-EPOXYCYCLOHEXYLMETHYL	2386-87-0	0.2389	mg
			Supplier	Silver (Ag)	7440-22-4	4.7775	mg
			Supplier	Formaldehyde Polymer	9003-36-5	0.2389	mg
			Supplier	Copper (Cu)	7440-50-8	0.9555	mg