ASSOCIATION CONNEL	© Copyright 2005. IPG	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 low 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 T http://www.ipc.org/IPC-175x Distribution													
Supplier Info	rmation														
Company name*			Company uni	Company unique ID			Unique ID Authority					Response Date*			
nsemi											2024-05	2024-05-21			
				Title - Contact			Phone - Contact*				Email -	Email - Contact*			
Product-Env-Ste	ewards	Product Enviro Compliance			]	NA				Produc	Product-Env-Stewards@onsemi.com				
Authorized Representative* Ti				Title - Representative			Phone - Representative*				Email -	Email - Representative*			
Product-Env-Sto	ewards	Product Enviro Compliance			1	NA				Produc	Product-Env-Stewards@onsemi.com				
Reque	ester Item Number	Mfr Iten	n Number			Effective Date	Version	Ma	Manufacturing Site		Weight <sup>s</sup>	* UOI	M	Unit Type	
		NB7V52MMNH		G TSMC,D FLIP-FLOP			2024-05-21	MY1			23.06 mg			Each	
lanufacturir	ng Proccess Informati	on													
Termi	inal Plating / Grid Array Material		Terminal Base Alloy J		J-STD-020 MS	ΓD-020 MSL Rating		Peak Process Body Temperature		Max Time at P	t Peak Temperatu		e Number of Reflow Cycles		
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy		1		260	C		30	secor	ids 3	<b>.</b>		
Comments							•	•			•				
evel 1 - maximu	m time at peak temperatur	e during so	ldering is 10-3	0 seconds											
	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 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									
		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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.25	mg	Supplier	Silicon (Si)	7440-21-3		0.25	mg
Die Attach	0.65	mg	Supplier	Silver (Ag)	7440-22-4		0.4875	mg
			Supplier	Epoxy resins	129915-35-1		0.1625	mg
Lead Frame	9.38	mg	Supplier	Tin (Sn)	7440-31-5		0.0235	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0206	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0235	mg
			Supplier	Copper (Cu)	7440-50-8		9.3125	mg
Mold Compound-Black	12.09	mg		Epoxy resin	proprietary data		0.5682	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.209	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0121	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9.7325	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.5682	mg
Plating	0.55	mg	Supplier	Palladium (Pd)	7440-05-3		0.0132	mg
			В	Nickel (Ni)	7440-02-0		0.484	mg
			Supplier	Gold (Au)	7440-57-5		0.0528	mg
Wire Bond - Au	0.14	mg	Supplier	Gold (Au)	7440-57-5		0.14	mg