IPC ASSOCIATION ELECTRONIC	© Copyright 2005	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 Typhttp://www.ipc.org/IPC-175x Distribute				e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier	r Information														
Company name* Company un				nique ID			Unique ID Authority					Response Date*			
nsemi												2023-06-08			
ontact N	lame	Title - Contact			F	Phone - Contact*				Email - Contact*					
Product-F	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com					
uthorize	ed Representative*	Title - Repre	Title - Representative			Phone - Representative*				Email - Representative*					
roduct-F	Env-Stewards	Product Env	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number	Mfr Iten	n Number	Mfr Item Name			Effective Date	Vers	ion	Manufacturing Site			Weight*	UOM	Unit Type
	NFVA33065L32 AS		ASPM27 V2 650V/30A			2023-06-08 CPA			15121.541		mg	Each			
lanufa	cturing Process Inform		Terminal Base	Alloy	-STD-020 MS	I Pating	Peak Proc	ess Rod	y Temperat	ure May T	Time at Peak	Temperat	ure Number	of Reflow Cyc	ples
-	8		CU Allov NA			L Kating	Peak Process Body Temperature Max Tim		inic at i cak	seconds 3		lies			
omments	` ′		Commoy	1	12.2					150		Secon	iuo 5		
minents	,														
ar mare i	information regarding materi	al composition	nlease refer t	n nage 3											

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
DBC	2416.55	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		966.6201	mg
			В	Nickel (Ni)	7440-02-0		24.1655	mg
			Supplier	Copper (Cu)	7440-50-8		1425.7645	mg
Die	52.1228	mg	Supplier	Silicon (Si)	7440-21-3		52.1228	mg
Die Attach	21.549	mg	Supplier	Silver (Ag)	7440-22-4		0.6465	mg
			Supplier	Tin (Sn)	7440-31-5		20.7948	mg
			Supplier	Copper (Cu)	7440-50-8		0.1077	mg
Die Attach Epoxy	1.34901	mg	Supplier	Poly(oxypropylene)diamine	9046-10-0		0.0405	mg
			Supplier	Miscellaneous	Trade Secret		0.0675	mg
			Supplier	Silver (Ag)	7440-22-4		1.1467	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0944	mg
Die Attach Solder	1.07957	mg	Supplier	Silver (Ag)	7440-22-4		0.0324	mg
			Supplier	Tin (Sn)	7440-31-5		1.0418	mg
			Supplier	Copper (Cu)	7440-50-8		0.0054	mg
Lead Frame	3026.94	mg	Supplier	Silver (Ag)	7440-22-4		0.0303	mg
			Supplier	Iron (Fe)	7439-89-6		3.0269	mg
			Supplier	Copper (Cu)	7440-50-8		3022.9746	mg
			Supplier	Phosphorus (P)	7723-14-0		0.9081	mg
Mold Compound-Black	9436.02	mg	Supplier	Polymer(phenyl glycidil ether)-co- dicyclopentadiene	119345-05-0		377.4408	mg
			Supplier	4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethylbiphenyl	85954-11-6		377.4408	mg
			Supplier	Carbon Black (C)	1333-86-4		47.1801	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8162.1572	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		94.3602	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		377.4408	mg
Plating	113.724	mg	Supplier	Tin (Sn)	7440-31-5		113.724	mg
Wire Bond - Al	50.409	mg	Supplier	Aluminum (Al)	7429-90-5		50.409	mg
Wire Bond - Au	1.798	mg	Supplier	Gold (Au)	7440-57-5		1.798	mg