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 Type http://www.ipc.org/IPC-175x Distribute				e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						fg Inf	ormation	ı			
upplier	Information																
Company n	name*	Company uni	Company unique ID			Unique ID Authority					Response Date*						
nsemi													2023-06-08				
ontact Na	me	·	Title - Contact				Phone - Contact*					Email - Contact*					
Product-E	nv-Stewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com						
uthorized	Representative*	Title - Representative				Phone - Representative*				Email - Representative*							
roduct-E	nv-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com							
	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective D	Date	Version	Manufacturing Site		,	Weigh	nt*	UOM	Unit Type	
	NOIV1S.			SN025KA-GTI VITA25K MONO ML PGA355 with protective foil			2023-06-08 THA			14408.294		3.294	mg	Each			
Ianufac	turing Proccess Information	on															
-	Terminal Plating / Grid Array Material		Γerminal Base Alloy J-S		J-STD-020 MS	20 MSL Rating		Peak Process Body Temperature		re Max Time at Peak Temper		Temperat	ure	re Number of Reflow Cycles		eles	
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy NA			0		С	30		seconds		3			
comments												·			·	<u>.</u>	
or more in	nformation regarding material co	mposition	please refer to	page 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 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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Ceramic Substrate	10733.9	mg	Supplier	Cobalt (Co)	7440-48-4		77.2841	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7		46.1558	mg
			Supplier	Silver (Ag)	7440-22-4		60.1098	mg
			Supplier	Molybdenum (Mo)	7439-98-7		45.0824	mg
			Supplier	Tungsten (W)	7440-33-7		893.0605	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		92.3115	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		322.017	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		8382.1025	mg
			В	Nickel (Ni)	7440-02-0		172.8158	mg
			Supplier	Gold (Au)	7440-57-5		27.9081	mg
			Supplier	Iron (Fe)	7439-89-6		245.8063	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		358.5123	mg
			Supplier	Copper (Cu)	7440-50-8		10.7329	mg
Die	1422.37	mg	Supplier	Silicon (Si)	7440-21-3		1422.37	mg
Die Attach	0.004	mg	Supplier	Silver (Ag)	7440-22-4		0.0034	mg
			Supplier	Epoxy resins	129915-35-1		0.0006	mg
Glass Attach Epoxy	0.21	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.0872	mg
			Supplier	4,4'-Diaminodiphenyl Sulfone (DDS-4,4')	80-08-0		0.0332	mg
			Supplier	Filler (SiO2?C2H6Cl2Si)	68611-44-9		0.0828	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0056	mg
			Supplier	Additive	1760-24-3, 2530- 83-8		0.0011	mg
Glass Lid /Cap	2247.8	mg	Supplier	Boron Trioxide (B2O3)	1303-86-2		188.8152	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1346.8818	mg
			Supplier	Barium Monoxide (BaO)	1304-28-5		178.0258	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		178.0258	mg
			Supplier	Calcium Monoxide (CaO)	1305-78-8		356.0515	mg
Wire Bond - Al	4.01	mg	Supplier	Aluminum (Al)	7429-90-5		4.01	mg