ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and	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.									
	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier Information														
ompany name*	Company uni	Company unique ID			Unique ID Authority					Response Date*				
nsemi										2023-06-08				
ontact Name	Title - Contac	Title - Contact			Phone - Contact*					Email - Contact*				
Product-Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
uthorized Representative*	Title - Repres	Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item Numbe		Number Mfr Item Name			Effective Da	ate V	Version	Manufacturing Site		W	/eight*	UOM	Unit Type
	NOIV1			/ITA25K COLOR ML PGA355 with protective foil		2023-06-08		THA		14408.294		mg	Each	
Ianufacturing Proccess Inform	nation													
Terminal Plating / Grid Array	Array Material Terminal Base		Alloy	J-STD-020 MSL Rating		Peak Process Bo		Body Temperatu	dy Temperature Max Time at Peak		Temperature Number of Reflow C		er of Reflow Cy	cles
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		U Alloy NA			0	С		<b>30</b> sec		second	seconds 3			
omments														
or more information regarding mater	ial compositior	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed						
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).										
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe v others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and cc for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav Drska	Le									

## 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.

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