IPC ASSOCIATION CONNECT ELECTRONICS INDUSTR	Material Compo © Copyright 2005. If international and Pan	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			This leve	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowel 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					ials and Mfg Information					
Supplier Infor	mation															
Company name* Company unique ID				ique ID	Ui		Unique ID Authority					Response Date*				
onsemi												2023-06-08				
Contact Name			Title - Contact			P	Phone - Contact*					Email - Contact*				
Product-Env-Stev	wards	Product Enviro Compliance			ı	NA					Product-Env-Stewards@onsemi.com					
Authorized Representative* Title				Title - Representative			Phone - Representative*				Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			ľ	NA				Product-Env-Stewards@onsemi.com					
Reques	ester Item Number Mfr Item		m Number Mfr Item Name				Effective Date Version Manufa		Manufactu	ufacturing Site		Veigh	t*	UOM	Unit Type	
				Uni-directional S DFN	Uni-directional Surge Protection Diode 0402 DFN		2023-06-08			CN1		C	0.85 mg		mg	Each
Ianufacturin	g Proccess Informat	ion														
Termina	al Plating / Grid Array Material		Terminal Base Alloy J-		J-STD-020 MSL Rat	STD-020 MSL Rating		Peak Process Body Temperature		re Max Time at Peak Tempera		Temperati	ire l	Number	of Reflow Cyc	les
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			CU Alloy 1		1		260		С	30 seco		secono	ds 3	3		
Comments																
evel 1 - maximum	ı time at peak temperatu	re during so	ldering is 10-3	30 seconds												
or more informa	tion regarding material o	composition	please refer to	page 3												

RoHS Material Composition Declaration			Declaration Type *	Detail	led				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		nium (Cr6+), Polybrominated Biphenyls (Pl	aterial for Cadmium and quantity limit of 0.1% by BB), Polybrominated Diphenyl Ethers (PBDE), an						
cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co	ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation.	entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl	n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the this and/or remedies provided as part of				
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	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									
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the				
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	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
Die	0.05	mg	Supplier	Silicon (Si)	7440-21-3		0.05	mg
Die Attach	0.02	mg	Supplier	Silver (Ag)	7440-22-4		0.015	mg
			Supplier	Epoxy resins	129915-35-1		0.005	mg
Lead Frame	0.41	mg	Supplier	Magnesium (Mg)	7439-95-4		0.0006	mg
			Supplier	Silicon (Si)	7440-21-3		0.0027	mg
			В	Nickel (Ni)	7440-02-0		0.0123	mg
			Supplier	Copper (Cu)	7440-50-8		0.3944	mg
Mold Compound-Black	0.34	mg		Epoxy resin	proprietary data		0.016	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.034	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0003	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.2737	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.016	mg
Plating	0.02	mg	Supplier	Palladium (Pd)	7440-05-3		0.0015	mg
			В	Nickel (Ni)	7440-02-0		0.0182	mg
			Supplier	Gold (Au)	7440-57-5		0.0003	mg
Wire Bond - Cu	0.01	mg	Supplier	Copper (Cu)	7440-50-8		0.01	mg