	Material Composit © Copyright 2005. IPC, I nternational and Pan-Am	Bannockbi	urn, Illinois. A	ll rights reserved untions.	under both	This docum level parts,	ent is a decla the declaration	aration of on enco	of the substances mpasses all low	s within the manufactu er level materials for w	rer listed	item. Note: nanufacture	if the item is an as r has engineering	sembly with lower responsibility.	
					Form Type Distribute	e *	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information			
Supplier Informati	ion														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi											2023-00	2023-06-08			
Contact Name			Title - Contact				Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com					
Authorized Representative*			Title - Representative			Phone - Representative*			Email -	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Item		Mfr Item	n Number Mfr Item Name				Effective D	Date V	/ersion	Manufacturing Site		Weight*	UOM	Unit Type	
		MC100EL05DG B		BBG ECL GATE AND/NAND			2023-06-08	3		PH1		72.0	mg	Each	
Manufacturing Pro	occess Information														
Terminal Plating / Grid Array Material Tern			erminal Base A	minal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperature		re Max Time at Peak	k Temperature Number of Re		ber of Reflow Cy	cles		
Matte Tin (Sn) - annealed CU Alloy			U Alloy		1		260		С	30	seco	nds 3			
Comments															
level 1 - maximum time	at peak temperature d	uring sole	dering is 10-3	0 seconds											
For more information 1	egarding material com	position p	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU												
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 y 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.

sigma range of distribution unless otherwise noted).									
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	1.33	mg	Supplier	Silicon (Si)	7440-21-3		1.33	mg	
Die Attach	2.4	mg	Supplier	Silver (Ag)	7440-22-4		1.8	mg	
			Supplier	Epoxy resins	129915-35-1		0.6	mg	
Lead Frame	37.61	mg	Supplier	Silver (Ag)	7440-22-4		0.7898	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.0451	mg	
			Supplier	Iron (Fe)	7439-89-6		0.8838	mg	
			Supplier	Copper (Cu)	7440-50-8		35.8799	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.0113	mg	
Mold Compound-Black	28.58	mg		Epoxy resin	proprietary data		1.429	mg	
			Supplier	Phenolic Resin	Proprietary Data		1.429	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.5716	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.1429	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		25.0075	mg	
Plating	1.89	mg	Supplier	Tin (Sn)	7440-31-5		1.89	mg	
Wire Bond - Au	0.19	mg	Supplier	Gold (Au)	7440-57-5		0.19	mg	

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).