IPC ASSOCIATION ELECTRONIC	© Copyright 2	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under international and Pan-American copyright conventions.			Thi leve	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowelevel 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 Typ http://www.ipc.org/IPC-175x Distribute				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplie	r Information														
Company name* Company uniq				ique ID Ur		Unique ID Authority					Response Date*				
n Semic	onductor											2021-02-04			
Contact Name			Title - Contact			Pl	Phone - Contact*					Email - Contact*			
Product-l	Env-Stewards		Product Enviro Compliance			N	NA				Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*		Title - Representative			Pl	Phone - Representative*				Email - Representative*				
Product-l	Env-Stewards		Product Enviro Compliance			N	NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		n Number Mfr Item Name			E	Effective Date			ring Site	W	eight*	UOM	Unit Type	
		MBRD320T4 REC DPAK 3A		REC DPAK 3A 20	OV SHTKY TR	Y TR 2021-02							0.99	mg	Each
Ianufa	cturing Process Info	ormation										·			
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-020		-STD-020 MSL Ra	ating	Peak Process Body Temperatur		re Max Time at Peak Temperatur		e Num	ber of Reflow Cyc	eles		
PbSn		CU Alloy 1			235 C		30 second		seconds	3					
omments	3														
vel 1 - m	aximum time at peak tem	perature during so	ldering is 10-3	30 seconds											
or more	information regarding ma	terial composition	please refer to	o 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, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cert as of the date that Supplier completes this for Company acknowledges that Supplier may be independently verified information provided certification in this paragraph. If the Company that agreement, will be the sole and exclusive	ted biphenyls and/or polybrominated diphenyl es of an applicable quantity limit, please indicate ifies that it gathered the information it provides m. Supplier acknowledges that Company will relive relied on informationprovided by others in c by others, Supplier agrees that, at a minimum, it and the Supplier enter into a written agreement	011/65/EU and implemented by the laws of the Euchters (each a "RoHS restricted substance") in excluded which, if any, RoHS exemption you believ in this form using appropriate methods to ensure itly on this certification in determining the compliant completing this form, and that Supplier may not has the suppliers have provided certifications regarding the with respect to the identified part, the terms and county's remedies for issues that arise regarding information to such part shall apply.	ess of the applicable quantity limit identified above may apply. If the part is an assembly with lowests accuracy and that such information is true and the compact of its products with European Union members we independently verified such information. How their contributions to the part, and those certifical conditions of that agreement, including any warrance.	ove. If a homogeneous material within the part er level components, the declaration shall 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 unty rights and/or remedies provided as part of							
RoHS Declaration * 5 - Item(s	s) is obsolete, no information is available		Supplier Acceptance	* 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											
Instructions: Complete all of the required	fields on all pages of this form. Select the "Ac	cented" on the Supplier Acceptance dron-down	n This will display the signature area Digital	ly sign the declaration (if required by the							
Instructions: Complete all of the required Requester) and click on Submit Form to ha	fields on all pages of this form. Select the "Acave the form returned to the Requester.	ccepted" on the Supplier Acceptance drop-down	n. This will display the signature area. Digital	ly 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	0.2	mg	Supplier	Silicon (Si)	7440-21-3		0.2	mg
Die Attach	1.4	mg	A	Lead (Pb)	7439-92-1		1.33	mg
			Supplier	Tin (Sn)	7440-31-5		0.07	mg
Lead Frame	214.64	mg	В	Nickel (Ni)	7440-02-0		0.4293	mg
			Supplier	Copper (Cu)	7440-50-8		214.2107	mg
Mold Compound-Black	129.65	mg		Epoxy resin	proprietary data		9.0755	mg
			Supplier	Phenolic Resin	Proprietary Data		9.0755	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		19.4475	mg
			Supplier	Carbon Black (C)	1333-86-4		0.6482	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		91.4032	mg
Plating	3.73	mg	A	Lead (Pb)	7439-92-1		0.746	mg
			Supplier	Tin (Sn)	7440-31-5		2.984	mg
Wire Bond - Al	1.37	mg	Supplier	Aluminum (Al)	7429-90-5		1.37	mg