IPC ASSOCIATION CO	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der both	This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower 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 Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfc Information			
upplier I	Information													
Company na	ame*	Company unique ID			Ţ	Unique ID Authority				Response Date*				
nsemi											2023-06-08			
Contact Nan	me	Title - Contact			F	Phone - Contact*				Email - Contact*				
Product-En	v-Stewards		Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com			
uthorized I	Representative*	Title - Representative			F	Phone - Representative*			Email - Representative*					
Product-En	v-Stewards	Product Enviro Compliance]	NA				Product-Env-Stewards@onsemi.com				
F	Requester Item Number Mfr		tem Number Mfr Item Name				Effective Date	Version	N	Manufacturing Site	V	Veight*	UOM	Unit Type
		MMBFJ201 SOT-23 J201 MA		SOT-23 J201 MAR	RKED 62P		2023-06-08 CN1		N1	8	.706	mg	Each	
Ianufact	uring Proccess Inform	ation												
Te	Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-02			STD-020 MSL	Rating	ting Peak Process Body Temperature Max Time at Peak Temperature N					re Numb	er of Reflow Cyc	eles	
Matte Tin (Sn) - annealed CU			U Alloy 1				260 C 30			30	seconds 3			
omments														
vel 1 - max	ximum time at peak tempera	ture during sol	ldering is 10-3	30 seconds										
or more inf	formation regarding materia	al composition	please refer to	page 3										

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its uppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
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
Die	0.048	mg	Supplier	Silicon (Si)	7440-21-3		0.048	mg
Lead Frame	2.371		Supplier	Silver (Ag)	7440-22-4		0.0474	mg
			В	Nickel (Ni)	7440-02-0		0.8607	mg
			Supplier	Iron (Fe)	7439-89-6		1.1902	mg
			Supplier	Copper (Cu)	7440-50-8		0.2727	mg
Mold Compound-Black	6.061		Supplier	Boron zinc hydroxide oxide	138265-88-0		0.1818	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0303	mg
			Supplier	2,4,6-triamino-1,3,5-triazine isocyanuric acid	37640-57-6		0.1818	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		4.8488	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0606	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.4849	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.2727	mg
Plating	0.206	mg	Supplier	Tin (Sn)	7440-31-5		0.206	mg
Wire Bond - Au	0.02	mg	Supplier	Gold (Au)	7440-57-5		0.02	mg