IPC ASSOCIATION ELECTRONIC		Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved und international and Pan-American copyright conventions.			nder both	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.									
752-21.1					Form Type * Distribute	*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfg Information			
Supplie	r Information						·								
Company name*				Company unique ID			Unique ID Authority					Response Date*			
nsemi												2023-06-08			
Contact N	Name	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*				
?roduct-l	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com			
uthorize	ed Representative*		Title - Representative			I	Phone - Representative*				Email - Representative*				
Product-l	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr		em Number Mfr Item Name				Effective Date	Versi	Version		Manufacturing Site		eight*	UOM	Unit Type
		FOD8384R2 SO5 3A GD		SO5 3A GD T&R	&R		2023-06-08 I		PBB		19	97.151	mg	Each	
Ianufa	acturing Process Inform	mation						·							
	Terminal Plating / Grid Array	erminal Plating / Grid Array Material		Terminal Base Alloy J-STI		Rating	Peak Process Body		ody Temperature Max Time at Peak		Temperature Number of Reflow		er of Reflow Cyc	eles	
Matte Tin (Sn) - annealed			CU Alloy 1			260		C 30		seconds		s 3			
omments	S														
vel 1 - m	naximum time at peak tempe	rature during so	oldering is 10-3	30 seconds											
or more	information regarding mate	rial composition	please refer to	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a		
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of
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 applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
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	
Coupling Gel	3.5	mg	Supplier	Dimethyl Siloxane	68083-19-2		3.5	mg	
Die	1.131	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.071	mg	
			Supplier	Silicon (Si)	7440-21-3		1.06	mg	
Die Attach	0.223	mg	Supplier	Silver (Ag)	7440-22-4		0.1784	mg	
			Supplier	Phenolic Resin-2	54208-63-8		0.0446	mg	
Lead Frame	36.392	mg	Supplier	Silver (Ag)	7440-22-4		0.2	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.044	mg	
			Supplier	Iron (Fe)	7439-89-6		0.837	mg	
			Supplier	Copper (Cu)	7440-50-8		35.3	mg	
			Supplier	Phosphorus (P)	7723-14-0		0.011	mg	
Mold Compound-Black	153.98	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		30.8	mg	
			Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		6.16	mg	
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		35.4	mg	
			В	Antimony Trioxide (Sb2O3)	1309-64-4		4.62	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		77	mg	
Plating	1.69	mg	Supplier	Tin (Sn)	7440-31-5		1.69	mg	
Wire Bond - Au	0.235	mg	Supplier	Gold (Au)	7440-57-5		0.235	mg	