ASSOCIATION CONNECTING ELECTROMICS INDUSTRIES®	C. Bannockł	ourn. Illinois. A	ll rights reserved untions.	under both	This docume level parts, t	ent is a declaration en declaration en	on of the su compasses	bstances v all lower	within the manufacture level materials for w	urer listed which the	item. Note: manufacture	if the item is an as er has engineering	sembly with low responsibility.	
				Form Type Distribute	<ul> <li>Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Material</li> </ul>					rials and N	als and Mfg Information			
upplier Information														
Company name* Compan			npany unique ID			Unique ID Authority				Respor	Response Date*			
nsemi											2024-04-20			
Contact Name	act Name Title - Contact				Phone - Contact*				Email	Email - Contact*				
Product-Env-Stewards Product Envir			viro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative			sentative			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Product 1			luct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Effective Date Version Manufacturing S		anufacturing Site		Weight*	UOM	Unit Type	
	FDS446	S4465 FET 20V 8.5 m		Jhm SO8		2024-04-20		CI	СИЈ		87.83	mg	Each	
Ianufacturing Proccess Informat	ion		·											
Terminal Plating / Grid Array Mat	terial 7	erminal Base A	lloy J-STD-020 MSL Rati		L Rating	Peak Proce	ocess Body Temperature Max T		Max Time at Pea	Temperature Number of Reflow Cycles		eles		
Matte Tin (Sn) - annealed CU Allo		CU Alloy	1			<b>260</b> C		С	30 seco		seconds 3			
omments														
vel 1 - maximum time at peak temperatu	re during so	dering is 10-3	0 seconds											
or more information regarding material o	composition	please refer to	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, 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 co 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	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.

Iomogeneous Material Weight Unit		Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.85	mg	Supplier	Silicon (Si)	7440-21-3		1.85	mg
Die Attach	0.43	mg	Supplier	Silver (Ag)	7440-22-4		0.3677	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0623	mg
Lead Frame	34.4	mg	Supplier	Silver (Ag)	7440-22-4		1.72	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0413	mg
			Supplier	Iron (Fe)	7439-89-6		0.8256	mg
			Supplier	Copper (Cu)	7440-50-8		31.7856	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0275	mg
Mold Compound-Black	50.02	mg		Epoxy resin	proprietary data		2.501	mg
			Supplier	Phenolic Resin	Proprietary Data		1.0004	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.2505	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2501	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		45.018	mg
Plating	0.2	mg	Supplier	Tin (Sn)	7440-31-5		0.2	mg
Wire Bond - Cu	0.93	mg	Supplier	Copper (Cu)	7440-50-8		0.93	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).