ABSOCIATION CONNECTING ASSOCIATION CONNECTING LICTROMICS INDUSTRIES®	ourn. Illinois. All rights reserved un	der both This docum level parts,	ent is a declaratio the declaration en	n of the substance compasses all low	es within the manufacture ver level materials for wh	er listed item. Note: if hich the manufacturer	the item is an as has engineering	sembly with lower responsibility.		
IPC Web Site for Information on I http://www.ipc.org/IPC-175x	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175xForm Type Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information						
Supplier Information										
Company name*	npany name* Company unique ID		Unique ID Authority			Response Date*				
onsemi					2024-05-21					
Contact Name	Name Title - Contact			Phone - Contact*			Email - Contact*			
roduct-Env-Stewards Product Enviro Compliance			NA			Product-Env-Stewards@onsemi.com				
uthorized Representative* Title - Representative			Phone - Representative*			Email - Representative*				
Product-Env-Stewards Product Enviro Complian		npliance NA				Product-Env-Stewards@onsemi.com				
Requester Item Number Mfr Item	Number Mfr Item Name	Mfr Item Name		Version	Manufacturing Site	Weight*	UOM	Unit Type		
ES3D	UFR SMC PN 3A 2	200V	2024-05-21		TSCBE	232.5	mg	Each		
Manufacturing Proccess Information						·				
Terminal Plating / Grid Array Material T	erminal Base Alloy J-	STD-020 MSL Rating	Peak Proces	s Body Temperat	ure Max Time at Peak	Temperature Numb	er of Reflow Cyc	eles		
Matte Tin (Sn) - annealed CU Alloy 1			260	С	30	seconds 3				
Comments										
evel 1 - maximum time at peak temperature during sol	dering is 10-30 seconds									
For more information regarding material composition	please refer to page 3									

RoHS Material Composition Declar	ation			Declaration Type *	Detailed					
Directive 2015/863/EU amending Rol Directive 2011/65/EU	(Pb), Mercury (Hg), Hexav	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, polyb contains a RoHS restricted substance i encompass all such components.Suppl as of the date that Supplier completes Company acknowledges that Supplier independently verified information pro- certification in this paragraph.If the Co	rominated biphenyls and/or polybror nexcess of an applicable quantity lim ier certifies that it gathered the inforr this form.Supplier acknowledges that may have relied on informationprovi ovided by others, Supplier agrees that ompany and the Supplier enter into a clusivesource of the Supplier's liabili	ninated diphenyl ethers (each a "R it, please indicate below which, if nation it provides in this form usin Company will rely on this certifud ded by others in completing this f , at a minimum, itssuppliers have written agreement with respect to ty and the Company's remedies for	toHS restricted substance") in exce any, RoHS exemption you believe ag appropriate methods to ensure it cation in determining the complian orm, and that Supplier may not hav provided certifications regarding th the identified part,the terms and co or issues that arise regarding inform	ropean Union member states) of the part identifies so of the applicable quantity limit identified about may apply. If the part is an assembly with lows a accuracy and that such information is true and ce of its products with European Union member re independently verified such information. How heir contributions to the part, and those certifica motions of that agreement, including any warra nation the Supplier provides in this form. In the	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 inty rights and/or remedies provided as part of					
RoHS Declaration * 4	- Item(s) does not contain RoHS restr	icted substances per the definition	above except for selected exempti	ons Supplier Acceptance	* Accepted					
Exemption: 7a: Lead in high meltin Exemption: 7c-I Electrical and elect	g temperature type solders (i.e. lead ronic components containing lead i	l based solder alloys containing n a glass or ceramic other than	85% by weight or more lead). dielectric ceramic in capacitors, o	e.g. piezoelectronic devices, or in a glass or ce	eramic matrix compound.					
Exemption List Version	EL-2011/534/EU									
Declaration Signature										
Instructions: Complete all of the rec Requester) and click on Submit For			Supplier Acceptance drop-down	. This will display the signature area. Digital	ly sign the declaration (if required by the					
Supplier Digital Signature	Rastislav 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	3.798	mg	А	Lead (Pb)	7439-92-1	7c	0.1823	mg
			Supplier	Silicon (Si)	7440-21-3		3.5625	mg
			В	Nickel (Ni)	7440-02-0		0.0342	mg
			Supplier	Gold (Au)	7440-57-5		0.019	mg
Die Attach Solder	4.36	mg	Supplier	Silver (Ag)	7440-22-4		0.109	mg
			А	Lead (Pb)	7439-92-1	7a	4.033	mg
			Supplier	Tin (Sn)	7440-31-5		0.218	mg
Lead Frame	90.9231	mg	Supplier	Iron (Fe)	7439-89-6		0.1091	mg
			Supplier	Copper (Cu)	7440-50-8		90.7867	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0273	mg
Mold Compound-Black	132.0	mg		Metal Hydroxide	proprietary data		4.62	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		10.56	mg
			Supplier	Carbon Black (C)	1333-86-4		0.66	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		105.6	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		10.56	mg
Plating	1.4189	mg	Supplier	Tin (Sn)	7440-31-5		1.4189	mg