<b>PC</b> BOCIATION CONNECTING CODYRIGH 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.					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.									
2 21 1 IPC Web Site for Information on IPC-1752 Standard Form				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					on				
Supplier Information														
Company name*	Company unique ID				Unique ID Authority					Response Date*				
onsemi											2024-04-24			
Contact Name Titl			Title - Contact			Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards	Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com					
Authorized Representative*			Title - Representative			Phone - Representative*				Email -	Email - Representative*			
Product-Env-Stewards	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com						
Requester Item Number	Item Number Mfr Item Nu		Number Mfr Item Name			Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type	
	EMI419	EMI4192MTTAG LOW RESISTAL		CE CMF W ESD		2024-04-24					9.580241	mg	Each	
Manufacturing Proccess Inform	ation													
Terminal Plating / Grid Array Material Terminal Base		Alloy J	J-STD-020 MSI	L Rating	Peak Proc	ess Body To	emperati	ure Max Time at Peak	Tempera	ture Numbe	er of Reflow Cyc	cles		
Matte Tin (Sn) - annealed CU Alloy			1	1		260		С	30	seco	nds 3			
Comments														
level 1 - maximum time at peak tempera	ture during so	Idering is 10-3	0 seconds											
For more information regarding materia	l 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 v 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 cc 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.

XX / 1	***	TT ' CAT	<b>T 1</b>	6.1.4	C A S	E t	XX7 • 1 4	TT '4 CDA
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.990241	mg	Supplier	Silicon (Si)	7440-21-3		0.9902	mg
Die Attach Epoxy	0.11	mg		Epoxy resin	proprietary data		0.0715	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.0385	mg
Lead Frame	2.2	mg	Supplier	Zinc (Zn)	7440-66-6		0.0022	mg
			Supplier	Iron (Fe)	7439-89-6		0.0506	mg
			Supplier	Copper (Cu)	7440-50-8		2.145	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0022	mg
Mold Compound-Black	5.59	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.4472	mg
			Supplier	Carbon Black (C)	1333-86-4		0.028	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.1118	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		4.8354	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1677	mg
Plating	0.04	mg	Supplier	Silver (Ag)	7440-22-4		0.0027	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0029	mg
			В	Nickel (Ni)	7440-02-0		0.0339	mg
			Supplier	Gold (Au)	7440-57-5		0.0004	mg
Protection coat	0.57	mg		Polyimide	proprietary data		0.57	mg
Wire Bond - Au	0.08	mg	Supplier	Gold (Au)	7440-57-5		0.08	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).