ASSOCIATION OF ELECTRONICS	Material Comp © Copyright 2005. I international and Par	osition Dec PC, Bannockb n-American co	claration ourn, Illinois. A opyright conve	ll rights reserved u	nder both This clevel	documen parts, the	t is a declarate declaration of	ion of the sub encompasses a	stance all low	s within the manufactur er level materials for wl	er listed nich the	item. Note: i manufacture	f the item is an as has engineering	sembly with lower responsibility.
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x			Form Type * Distribute					o, Homogeneous Materia	rials and Mfg Information				
Supplier 1	Information													
Company name*			Company unique ID			Uı	Unique ID Authority				Response Date*			
On Semiconductor											2017-11	1-13		
Contact Name			Title - Contact			Pł	Phone - Contact*			Email - Contact*				
Rastislav Drska			Product Enviro Compliance			+4	+421337902123				Rastislav.Drska@onsemi.com			
Authorized Representative*			Title - Representative			Pł	Phone - Representative*			Email - Representative*				
Rastislav Drska			Product Enviro Compliance			+4	+421337902123				Rastislav.Drska@onsemi.com			
]	Requester Item Number	Mfr Item	Number	Mfr Item Name		E	Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type
		2SB1203	T-TL-H			2	2017-11-13					281.65	mg	Each
Manufact	turing Proccess Informa	tion				·							•	
Т	erminal Plating / Grid Array M	ating / Grid Array Material Terminal Base Alloy		Alloy J	-STD-020 MSL Ratii	MSL Rating Peak Process Body Temperature Max Time at			ure Max Time at Peak	eak Temperature Number of Reflow Cycles				
				1					2	30	seco	nds 3		

RoHS Material Composition Declaration		Declaration Type *		Detailed							
RoHS Directive 2011/65/EU	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium										
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 knowledge 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 informationprovided 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 suppliers 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 neutrino 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 * 4 - Item(s)) does not contain RoHS restricted substances per	the definition above except for selected exempti	ions	Supplier Acceptance *	* Accepted						
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).											
Exemption List Version	EL-2006/690/EC			<u> </u>							
Declaration Signature											
Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.											

Supplier Digital Signature

Rastislav Drska

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	1.04	mg	Supplier	Silicon (Si)	7440-21-3		1.04	mg
Die Attach	0.49	mg	Supplier	Silver (Ag)	7440-22-4		0.0123	mg
			A	Lead (Pb)	7439-92-1	7a	0.453	mg
			Supplier	Tin (Sn)	7440-31-5		0.0247	mg
Lead Frame	146.45		Supplier	Silver (Ag)	7440-22-4		0.3808	mg
			Supplier	Tin (Sn)	7440-31-5		0.205	mg
			Supplier	Copper (Cu)	7440-50-8		145.8642	mg
Mold Compound-Black	129.7		Supplier	Epoxy + Phenol Resin	n/a		1.0376	mg
			Supplier	Carbon Black (C)	1333-86-4		1.297	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		7.782	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		103.76	mg
			Supplier	Ortho Cresol Novolac Resin	n/a		15.564	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2594	mg
Plating	3.34	mg	В	Bismuth (Bi)	7440-69-9		0.02	mg
			Supplier	Tin (Sn)	7440-31-5		3.32	mg
Wire Bond - Au	0.63	mg	Supplier	Gold (Au)	7440-57-5		0.63	mg