IPC ASSOCIATION ELECTRONICS	Material Comp © Copyright 2005. international and Pa	position Dec IPC, Bannockb an-American co	claration ourn, Illinois. A opyright conve	ll rights reserved u	nder both level	documen parts, the	nt is a declarat e declaration of	tion of the su encompasses	bstance all low	es within the manufactur wer level materials for wh	er listed hich the	item. Note: i manufacturer	f the item is an as has engineering	sembly with lower responsibility.
1752-2 1.1	IDC Wah Site for Information on IDC 1752 Standard			Form Type * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater				ials and Mfg Information						
Supplier	Information													
Company name*			Company unique ID			U	Unique ID Authority				Response Date*			
On Semiconductor											2017-1	1-13		
Contact Name			Title - Contact			Pl	Phone - Contact*			Email - Contact*				
Rastislav Drska			Product Enviro Compliance			+4	+421337902123				Rastislav.Drska@onsemi.com			
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Rastislav Drska			Product Enviro Compliance			+4	+421337902123				Rastislav.Drska@onsemi.com			
	Requester Item Number	Mfr Item	Number	Mfr Item Name		F	Effective Date	Version		Manufacturing Site		Weight*	UOM	Unit Type
		PACVGA	A105QR			2	2017-11-13					83.96	mg	Each
Manufac	turing Proccess Informa	ation												
7	Γerminal Plating / Grid Array M	Array Material Terminal Base Alloy		-STD-020 MSL Ratii	ISL Rating Peak Process Body Temperature Max Time at			ture Max Time at Peak	eak Temperature Number of Reflow Cycles					
				1					C	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 information provided 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's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.										
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substances per	r the definition above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.										
Exemption List Version	EL-2006/690/EC									
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	1.32	mg	Supplier	Silicon (Si)	7440-21-3		1.32	mg
Die Attach	0.2	•	Supplier	Silver (Ag)	7440-22-4		0.15	mg
			Supplier	Epoxy resins	129915-35-1		0.05	mg
Lead Frame	34.05		Supplier	Silver (Ag)	7440-22-4		0.3507	mg
			Supplier	Zinc (Zn)	7440-66-6		0.3201	mg
			Supplier	Iron (Fe)	7439-89-6		0.7968	mg
			Supplier	Copper (Cu)	7440-50-8		32.5518	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0306	mg
Mold Compound-Black	46.86	•	Supplier	Epoxy + Phenol Resin	n/a		4.9203	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		41.9397	mg
Plating	1.33	mg	Supplier	Tin (Sn)	7440-31-5		1.33	mg
Wire Bond - Au	0.2	mg	Supplier	Gold (Au)	7440-57-5		0.2	mg