ASSOCIATION CONNECTING	Material Composite © Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved utions.	under both	This docume level parts, t	ent is a declarat he declaration o	ion of the su	ibstances v s all lower	within the manufactu level materials for v	urer listed i which the r	tem. Note: nanufacture	if the item is an as r has engineering	sembly with low responsibility.	
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplier Inform	ation														
Company name*			Company unique ID				Unique ID Authority				Respon	Response Date*			
onsemi											2023-06	2023-06-08			
Contact Name			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				Produe	Product-Env-Stewards@onsemi.com			
Requester	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date Version Manufacturing Sit		Ianufacturing Site		Weight*	UOM	Unit Type		
		KA431D	KA431DTF SHUNT-REG		G 2% 8-SOIC		2023-06-08		С	CN5		83.697	mg	Each	
Ianufacturing F	Proccess Information	1						-					I		
Terminal Plating / Grid Array Material Termina			erminal Base A	Base Alloy J-STD-020 MSL Rating			Peak Process Body Temperature Max Time at Peak				k Tempera	Temperature Number of Reflow Cycles			
Matte Tin (Sn) - annealed CU			U Alloy	Alloy 1			260	260 C		30	secor	nds 3			
omments															
el 1 - maximum tir	me at peak temperature o	luring sol	dering is 10-3	0 seconds											
or more information	n regarding material con	position	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 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	ances per the definitio	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.

sigma range of distribution unless								
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	2.78	mg	Supplier	Silicon (Si)	7440-21-3		2.78	mg
Die Attach	0.718	mg	Supplier	Silver (Ag)	7440-22-4		0.5636	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.1544	mg
Lead Frame	38.599	mg	Supplier	Silver (Ag)	7440-22-4		0.077	mg
			Supplier	Zinc (Zn)	7440-66-6		0.05	mg
			Supplier	Iron (Fe)	7439-89-6		0.926	mg
			Supplier	Copper (Cu)	7440-50-8		37.531	mg
			Supplier	Phosphorus (P)	7723-14-0		0.015	mg
Mold Compound-Black	39.401	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4- hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		0.394	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		11.426	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.788	mg
			Supplier	Carbon Black (C)	1333-86-4		0.296	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		26.497	mg
Plating	2.0	mg	Supplier	Tin (Sn)	7440-31-5		2	mg
Wire Bond - Au	0.199	mg	Supplier	Gold (Au)	7440-57-5		0.199	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).