ASSOCIATION CONNECTING ELECTROMICS INDUSTRIES® International and Par	PC. Bannockl	burn, Illinois, A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declaration entries the declaration entries and t	on of the su	bstances v all lower	vithin the manufactu level materials for v	arer listed which the	item. Note: nanufacture	if the item is an as er has engineering	sembly with low responsibility.	
	21.1 IPC Web Site for Information on IPC-1752 Standard Form http://www.ipc.org/IPC-175x Distribution				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inf					lfg Informa	tion			
upplier Information														
Company name* Comp			Company unique ID			Unique ID Authority				Respor	Response Date*			
nsemi											2023-06-08			
ntact Name Title - Contact			ct			Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards Product Envi			nviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - Representative			resentative			Phone - Representative*			Email	Email - Representative*				
Product-Env-Stewards Produ			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Iten	n Number	Mfr Item Name			Effective Date Version Manufacturing S		Ianufacturing Site		Weight*	UOM	Unit Type		
	KA431S	KA431SMF2TF SHUNT-REG		2% SOT-23F		2023-06-08		C	CNF		12.328	mg	Each	
Ianufacturing Proccess Informa	tion							ŕ				· · ·		
Terminal Plating / Grid Array Ma	aterial 7	ial Terminal Base Alloy		-STD-020 MSL Rating		Peak Process Body Temperatu		emperature	ure Max Time at Peak Temper		ture Num	ber of Reflow Cyc	cles	
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1		260		С	30	seco	nds 3			
omments														
vel 1 - maximum time at peak temperatu	ire during so	ldering is 10-3	0 seconds											
or more information regarding material	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 shthalate (BBP), Dibutyl phthalate (DBP), Disobutyl 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 co 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	1.67	mg	Supplier	Silicon (Si)	7440-21-3		1.67	mg
Die Attach	0.047	mg	Supplier	Silver (Ag)	7440-22-4		0.035	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.012	mg
Lead Frame	4.826	mg	Supplier	Silver (Ag)	7440-22-4		0.029	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0058	mg
			Supplier	Iron (Fe)	7439-89-6		0.1134	mg
			Supplier	Copper (Cu)	7440-50-8		4.6764	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0014	mg
Mold Compound-Black	5.51	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		1.102	mg
			Supplier	Carbon Black (C)	1333-86-4		0.055	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		4.353	mg
Plating	0.203	mg	Supplier	Tin (Sn)	7440-31-5		0.203	mg
Wire Bond - Au	0.072	mg	Supplier	Gold (Au)	7440-57-5		0.072	mg