	© Copyright 2005. International and Pa	IPC, Bannockt	ourn, Illinois. A	Il rights reserved un ntions.	nder both	This docume level parts, t	ent is a declarat he declaration e	ion of the spencompasse	ubstances v s all lower	within the manufactur level materials for w	rer listed in hich the m	em. Note: i anufacture	f the item is an as r has engineering	sembly with lower responsibility.	
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information					
Supplier	Information														
Company name* Co			Company un	Company unique ID			Unique ID Authority					Response Date*			
onsemi										2023-06-08					
Contact Na	ame	Title - Contact				Phone - Contact*				Email - Contact*					
Product-E	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Authorized	l Representative*		Title - Representative				Phone - Representative*				Email - Representative*				
Product-E	Cnv-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site		· · · ·	Weight*	UOM	Unit Type		
		SMA3101-TL-E Si MMIC		Si MMIC fu=3GH	MMIC fu=3GHz		2023-06-08		С	CNG		7.68	mg	Each	
Manufac	cturing Proccess Information	ation													
-	Terminal Plating / Grid Array Material			erminal Base Alloy J-STD-020 MSL		L Rating	Peak Process Body Temperature		ure Max Time at Peak Tempera		ure Numb	per of Reflow Cyc	les		
	contains Bi CU Alloy			1			260		С	30	secon	ds 3			
Comments															
level 1 - ma	aximum time at peak temperat	ture during sol	Idering is 10-3	0 seconds											
For more in	nformation 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	mending RoHS 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.09	mg	Supplier	Silicon (Si)	7440-21-3		0.09	mg
Lead Frame	3.17	mg	Supplier	Silver (Ag)	7440-22-4		0.0669	mg
			Supplier	Zinc (Zn)	7440-66-6		0.006	mg
			В	Nickel (Ni)	7440-02-0		0.0114	mg
			Supplier	Iron (Fe)	7439-89-6		0.0802	mg
			Supplier	Copper (Cu)	7440-50-8		3.001	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0044	mg
Mold Compound-Black	4.28	mg		Brominated epoxy resin	proprietary data		0.0856	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.0428	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.0856	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0428	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3.2656	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.749	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0086	mg
Plating	0.1	mg	В	Bismuth (Bi)	7440-69-9		0.0006	mg
			Supplier	Tin (Sn)	7440-31-5		0.0994	mg
Wire Bond - Au	0.04	mg	Supplier	Gold (Au)	7440-57-5		0.04	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).