ASSOCIATION CONNEC	Material Composit © Copyright 2005. IPC, international and Pan-An	Bannockb	urn, Illinois. A	ll rights reserved un ntions.	nder both	This docum level parts, t	ent is a declara he declaration	ion of the sencompass	substances es all lowe	within the manufacture r level materials for w	rer listed	item. Note: i manufacture	f the item is an as r has engineering	ssembly with lower responsibility.	
1752-21.1					Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and N	als and Mfg Information				
Supplier Info	rmation														
Company name*			Company unique ID				Unique ID Authority				Respon	Response Date*			
onsemi											2024-05	2024-05-21			
Contact Name			Title - Contact				Phone - Contact*				Email - Contact*				
Product-Env-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorized Representative*			Title - Representative				Phone - Representative*				Email - Representative*				
Product-Env-Ste	wards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Reque	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Dat	ate Version Manufacturing Site			Weight*	UOM	Unit Type		
		2SA2013	2SA2013-TD-E BIP PNP 4A 50				2024-05-21		(	CNG		51.57	mg	Each	
Manufacturin	g Proccess Information	1													
Terminal Plating / Grid Array Material Ter			erminal Base Alloy J-STD-020 MSL			L Rating	Peak Process Body Temperature Max Time at Pea			Temperature Number of Reflow Cycles					
contains Bi CU A			U Alloy	by 1			260 C 30			seconds 3					
Comments															
level 1 - maximun	n time at peak temperature d	luring sol	dering is 10-3	0 seconds											
For more informa	ation regarding material com	position p	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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).										
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company	ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in iffies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg	nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co	e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 4 - Item(	s) does not contain RoHS restricted subst	ances per the definition above except for sele	ected exempt	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-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required Requester) and click on Submit Form to h			e drop-dowi	a. This will display the signature area. Digita	lly sign the declaration (if required by the						
Supplier Digital Signature	astislav 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	0.33	mg	Supplier	Silicon (Si)	7440-21-3		0.33	mg
Die Attach Solder	0.15	mg	Supplier	Silver (Ag)	7440-22-4		0.0038	mg
			А	Lead (Pb)	7439-92-1	7a	0.1388	mg
			Supplier	Tin (Sn)	7440-31-5		0.0075	mg
Lead Frame	22.4	mg	Supplier	Silver (Ag)	7440-22-4		0.0986	mg
			Supplier	Tin (Sn)	7440-31-5		0.0314	mg
			Supplier	Copper (Cu)	7440-50-8		22.2701	mg
Mold Compound-Black	27.64	mg		Brominated epoxy resin	proprietary data		0.387	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.2438	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.2488	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2764	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		20.73	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		4.6988	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0553	mg
Plating	0.77	mg	В	Bismuth (Bi)	7440-69-9		0.0046	mg
			Supplier	Tin (Sn)	7440-31-5		0.7654	mg
Wire Bond - Au	0.28	mg	Supplier	Gold (Au)	7440-57-5		0.28	mg