COLORING CONVECTING COLORING INDUSTRIES* Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
(5)-)	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inf						g Informa	tion		
Supplier Information														
ompany name*	Company unique ID			1	Unique ID Authority					Response Date*				
nsemi										2024-05-15				
ontact Name	Title - Conta	Title - Contact			Phone - Contact*					Email - Contact*				
Product-Env-Stewards	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
uthorized Representative*	Title - Representative]	Phone - Representative*				Email - Representative*					
roduct-Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requester Item Number	Requester Item Number Mfr Iten		n Number Mfr Item Name			Effective Da	ate	Version	ersion Manufacturing Site		V	Veight*	UOM	Unit Type
	2SA1593	A1593S-E BIP PNP 2A 100V		V		2024-05-15		CNG		NG		25.95	mg	Each
Ianufacturing Proccess Inform	ation					1								
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-0		L Rating	Peak Proce		ess Body Temperature Ma		ime at Peak	Temperati	ire Num	ber of Reflow Cyc	eles
contains Bi		CU Alloy]	NA		0		C	30		second	ls 3		
omments														
or more information regarding materia	l composition	please refer to	o 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), Disobutyl phthalate (DIBP).										
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 temp	erature type solders (i.e. lead based sol	der alloys containing 85% by weight or m	ore 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	0.67	mg	Supplier	Silicon (Si)	7440-21-3		0.67	mg
Die Attach Solder	0.31	mg	Supplier	Silver (Ag)	7440-22-4		0.0078	mg
			А	Lead (Pb)	7439-92-1	7a	0.2868	mg
			Supplier	Tin (Sn)	7440-31-5		0.0155	mg
Lead Frame	191.37	mg	Supplier	Silver (Ag)	7440-22-4		0.3827	mg
			Supplier	Tin (Sn)	7440-31-5		0.2679	mg
			Supplier	Copper (Cu)	7440-50-8		190.7193	mg
Mold Compound-Black	130.08	mg		Brominated epoxy resin	proprietary data		1.8211	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		5.8536	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.1707	mg
			Supplier	Carbon Black (C)	1333-86-4		1.3008	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		97.56	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		22.1136	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2602	mg
Plating	3.34	mg	В	Bismuth (Bi)	7440-69-9		0.02	mg
			Supplier	Tin (Sn)	7440-31-5		3.32	mg
Wire Bond - Au	0.18	mg	Supplier	Gold (Au)	7440-57-5		0.18	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).