ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES® International and Par	PC Bannockl	urn Illinois A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declaration entities of the declaration entities	on of the su	bstances v all lower	within the manufactu level materials for w	rer listed i which the r	tem. Note: nanufacture	if the item is an as r has engineering	sembly with low responsibility.	
	21.1 IPC Web Site for Information on IPC-1752 Standard Fo http://www.ipc.org/IPC-175x Dis				e * Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials a				ials and M	fg Information	tion			
upplier Information														
Company name* Con			Company unique ID			Unique ID Authority				Response Date*				
onsemi										2024-05	2024-05-10			
ntact Name Title - Contact			ct				Phone - Contact*				Email - Contact*			
Product-Env-Stewards Product En			t Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Authorized Representative* Title - Rep			epresentative			Phone - Representative*				Email - Representative*				
Product-Env-Stewards Prod			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version Manufacturing Site			Weight*	UOM	Unit Type		
	28C3649	2SC3649S-TD-E BIP NI		BIP NPN 1.5A 160V		2024-05-10		C	CNG		51.58	mg	Each	
Ianufacturing Proccess Informa	tion		·			•								
Terminal Plating / Grid Array M	aterial 7	erminal Base A	Alloy J-STD-020 MSL Rati		L Rating	Peak Proce	Process Body Temperature		e Max Time at Peak	Tempera	ture Num	ber of Reflow Cyc	les	
contains Bi CU Alloy		CU Alloy	1			260 C		С	30 seco		seconds 3			
omments														
vel 1 - maximum time at peak temperatu	ure during so	dering 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 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 ifies 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	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	27.35	mg		Brominated epoxy resin	proprietary data		0.3829	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		1.2308	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.2461	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2735	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		20.5125	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		4.6495	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0547	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	0.08	mg	Supplier	Gold (Au)	7440-57-5		0.08	mg