	© Copyright 2005. IPC, international and Pan-Ar	Bannockb	urn, Illinois. A	ll rights reserved un ntions.	nder both	This docume level parts, t	ent is a declaration	ion of the s encompasse	ubstances s all lower	within the manufactur r level materials for w	rer listed i hich the r	tem. Note: it nanufacturer	f the item is an as 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 Info	rmation													
Company name*			Company unique ID				Unique ID Authority				Response Date*			
onsemi											2025-06-08			
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	ewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Reque	Requester Item Number Mfr Item		n Number Mfr Item Name				Effective Date	Date Version Manufacturing Site			Weight*	UOM	Unit Type	
		2SD1805F-TL-E BIP N		BIP NPN 5A 20V		2025-06-08		C	CNG		281.38	mg	Each	
Manufacturir	ng Proccess Information	1												
Terminal Plating / Grid Array Material Term			erminal Base Alloy J-STD-020 MSL Ra			L Rating	Peak Process Body Temperature Max Time at Peak				Temperature Number of Reflow Cycles			
contains Bi CU Allog			U Alloy	1			260 C 30			seconds 3				
Comments														
evel 1 - maximu	n time at peak temperature d	luring sol	dering is 10-3	0 seconds										
For more inform	ation regarding material com	position j	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), Diisobutyl 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 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	146.45	mg	Supplier	Silver (Ag)	7440-22-4		0.3808	mg
			Supplier	Tin (Sn)	7440-31-5		0.205	mg
			Supplier	Copper (Cu)	7440-50-8		145.8642	mg
Mold Compound-Black	130.04	mg		Brominated epoxy resin	proprietary data		1.8206	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		5.8518	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.1704	mg
			Supplier	Carbon Black (C)	1333-86-4		1.3004	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		97.53	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		22.1068	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.2601	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	0.57	mg	Supplier	Gold (Au)	7440-57-5		0.57	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).