	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder both	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.										
752-21.1	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 Materi					eous Materia	als and Mi	fg Informati	ion		
upplie	r Information														
Company name* Company				y unique ID			Unique ID Authority					Response Date*			
nsemi												2025-08-14			
ontact N	lame		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-Stewards			Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Iten		n Number Mfr Item Name				Effective Date	e Versi	on	Manufacturing Site		1	Weight*	UOM	Unit Type
	BD442G			BIP C77 PNP 4A 80V			2025-08-14			CNG		6	501.02	mg	Each
Ianufa	cturing Proccess Informa	tion		,										L	
	Terminal Plating / Grid Array Material		Ferminal Base Alloy J-STD-020 MS		L Rating	Peak Process Body Temperat		ure Max Time at Peak Tempe		Temperat	ure Numb	per of Reflow Cyc	cles		
Matte Tin (Sn) - annealed		CU Alloy	Alloy NA			0 C		30		secon	ds 3				
omments	8														
or more	information regarding material	composition	please refer to	o page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed				
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		mium (Cr6+), Polybrominated Biphenyls (Pl		dmium and quantity limit of 0.1% by mass (10 minated Diphenyl Ethers (PBDE), and Bis(2-et					
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 fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.									
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.

sigma range of distribution unless otherwise noted).										
Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure		
Die	6.01	mg	Supplier	Silicon (Si)	7440-21-3		6.01	mg		
Die Attach Solder	0.29	mg	Supplier	Silver (Ag)	7440-22-4		0.0072	mg		
			А	Lead (Pb)	7439-92-1	7a	0.2682	mg		
			Supplier	Tin (Sn)	7440-31-5		0.0145	mg		
Lead Frame	315.4	mg	Supplier	Zinc (Zn)	7440-66-6		0.3154	mg		
			Supplier	Iron (Fe)	7439-89-6		0.3154	mg		
			Supplier	Copper (Cu)	7440-50-8		314.7692	mg		
Mold Compound-Black	268.29	mg		Phenolic Resin	proprietary data		16.0974	mg		
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		26.829	mg		
			Supplier	Carbon Black (C)	1333-86-4		1.3414	mg		
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		20.1218	mg		
			Supplier	Fused Silica (SiO2)	60676-86-0		203.9004	mg		
Plating	8.02	mg	Supplier	Tin (Sn)	7440-31-5		8.02	mg		
Wire Bond - Al	3.01	mg	Supplier	Aluminum (Al)	7429-90-5		3.01	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