ASSOCIATION CONNECTING	Material Composit © Copyright 2005. IPC, ∗ international and Pan-Ar	tion Dec Bannockb nerican co	claration urn, Illinois. A pyright conver	ll rights reserved u tions.	nder both	This docume level parts, t	ent is a declaration entite the declaration e	on of the substancompasses all	nces within the r lower level mate	nanufacture rials for whi	er listed item. ich the manu	Note: if facturer	the item is an as has engineering	sembly with low responsibility.	
752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Ty				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information				
upplier Informa	ation														
Company name*			Company unique ID			-	Unique ID Authority				Response Date*				
onsemi											2024-04-26				
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*					
roduct-Env-Stewar	ds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requester	Requester Item Number Mfr Iter		n Number Mfr Item Name				Effective Date	Version	Manufacturi	Manufacturing Site		ght*	UOM	Unit Type	
		NGTB40N120FL2WG 1200V/		1200V/40A Fast 1	200V/40A Fast IGBT FSII TO-247		2024-04-26 CN5			7366.16		mg	Each		
Ianufacturing P	Proccess Information	n													
Terminal P	Terminal Plating / Grid Array Material		Ferminal Base Alloy J-STD-020		-STD-020 MS	L Rating	Peak Process Body Temperat		erature Max Tin	ure Max Time at Peak Temper		Numbe	er of Reflow Cyc	les	
Matte Tin (Sn) - annealed		CU Alloy NA			0 C		30		seconds 3						
omments															
or more information	n regarding material con	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), Diisobutyl phthalate (DIBP).										
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe y others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and co for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of						
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all						
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the						
Supplier Digital Signature Ra	stislav 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	89.77	mg	Supplier	Silicon (Si)	7440-21-3	1	89.77	mg
Die Attach	281.28	mg	Supplier	Silver (Ag)	7440-22-4		70.32	mg
			Supplier	Tin (Sn)	7440-31-5		182.832	mg
			В	Antimony (Sb)	7440-36-0		28.128	mg
Lead Frame	4916.7	mg	Supplier	Tin (Sn)	7440-31-5		41.792	mg
			В	Nickel (Ni)	7440-02-0		27.0419	mg
			Supplier	Copper (Cu)	7440-50-8		4847.8662	mg
Mold Compound-Black	2040.91	mg		Phenolic Resin	proprietary data		122.4546	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		204.091	mg
			Supplier	Carbon Black (C)	1333-86-4		10.2045	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		153.0683	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		1551.0916	mg
Plating	12.83	mg	Supplier	Tin (Sn)	7440-31-5		12.83	mg
Wire Bond - Al	24.67	mg	Supplier	Aluminum (Al)	7429-90-5		24.67	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 signa range of distribution unless otherwise noted).