IPC ASSOCIATION ELECTRONIC	© Copyright 2005.	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under be international and Pan-American copyright conventions.		der both			n of the substanc compasses all lo					ssembly with low responsibility.		
752-21.1		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				ials and Mfg Information			
upplier	r Information													
Company name*			Company uni	Company unique ID			Unique ID Authority				Response Date*			
nsemi											2024-05-21			
ontact N	ame	Title - Contact			F	Phone - Contact*				Email - Contact*				
Product-I	Env-Stewards	Product Enviro Compliance			1	NA				Product-Env-Stewards@onsemi.com				
uthorize	d Representative*	Title - Representative			F	Phone - Representative*			Ema	Email - Representative*				
roduct-I	Env-Stewards	Product Envi	Product Enviro Compliance			NA			Pro	Product-Env-Stewards@onsemi.com				
	Requester Item Number		Mfr Item Number Mfr Item N		n Name		Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
		NGTB40N120FL3WG IGBT 1200V 40A F		FS3 Solar/UP	s	2024-05-21		CN5		7366.16	mg	Each		
lanufa	cturing Process Inform		Famminal Daga	Nley.	STD-020 MS	I. Dating	Dools Duo oo	Dody Tampag	ture May Time	at Daals Town	Onotive Nivesh	on of Doflow Cw	olog	
	, , , , , , , , , , , , , , , , , , ,		Terminal Base Alloy J-STD-020 CU Alloy NA			L Kaung	Peak Process Body Temperature Max Time at 1		1	sek Temperature Number of Reflow Cycles seconds 3				
omments	·		CO Alloy	[1]	А				30	se	conus 3			
minents)													
	information regarding materia	1	1 6 4											

RoHS Material Composition Declaration			Declaration Type *	Detail	led						
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).											
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substa	ances per the definition above	Supplier Ac	cceptance *	Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructional Complete all of the required	fields on all neggs of this form. Calcut th		a duan dawn. This will display the signature on	a Digitally sign	the declaration (if recurined by the						
Instructions: Complete all of the required Requester) and click on Submit Form to			e drop-down. This will display the signature ar	ea. Digitally sign	the declaration (if required by the						

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.

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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	89.77	mg	Supplier	Silicon (Si)	7440-21-3		89.77	mg
Die Attach	281.28	_	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		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			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