IPC  ASSOCIATION CONNECT ELECTRONICS INDUSTI	© Copyright 2005. IPC	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			der 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 Typ http://www.ipc.org/IPC-175x Distribute				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					ials and Mfc Information				
upplier Infor	mation								,						
Company name*			Company unique ID			J	Unique ID Authority				Response Date*				
nsemi											2023-06-08				
Contact Name		ŗ	Title - Contact			1	Phone - Contact*				Email - Contact*				
Product-Env-Ste	wards	]	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Repre	esentative*	-	Title - Representative			1	Phone - Representative*				Email - Representative*				
Product-Env-Ste	wards	]	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Reque	ster Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	ersion Manufacturing Site		Weig	ht*	UOM	Unit Type	
		NCP380HI BG	NCP380HMU20AAT OVER CURRENT I		PROTECTIO	ON	2023-06-08	8 MY1		ЛҮ1	6.65		mg	Each	
Ianufacturin	g Proccess Informatio	n													
Terminal Plating / Grid Array Material Terminal Base			rminal Base A	nal Base Alloy J-STD-020 MSL Rating Peak Prod					Process Body Temperature   Max Time at Peak Temperature   Number of Reflow Cycles						
Matte Tin (Sn) - annealed		CU	CU Alloy 1				260		С	30	seconds	3			
omments				-											
	ı time at peak temperature	during sold	ering is 10-3	0 seconds											
or more informa	tion regarding material co	mnosition nl	lease refer to	nage 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed						
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 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 suppliers have 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 have not 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 Itaalian and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	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											
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	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	vel Substance		Exempt	Weight	Unit of Measure	
Die	0.32 mg		Supplier	Silicon (Si)	7440-21-3		0.32	mg	
Die Attach	0.05	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.016	mg	
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.034	mg	
Lead Frame	2.75	mg	Supplier	Silver (Ag)	7440-22-4		0.066	mg	
			Supplier	Tin (Sn)	7440-31-5		0.0069	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.006	mg	
			Supplier	Chromium (Cr)	7440-47-3		0.0069	mg	
			Supplier	Copper (Cu)	7440-50-8		2.6642	mg	
Mold Compound-Black	3.09	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.2472	mg	
			Supplier	Carbon Black (C)	1333-86-4		0.0154	mg	
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0618	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		2.6728	mg	
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0927	mg	
Plating	0.2	mg	Supplier	Tin (Sn)	7440-31-5		0.2	mg	
Wire Bond - Au	0.24	mg	Supplier	Gold (Au)	7440-57-5		0.24	mg	