IPC ASSOCIATION COI	Material Comp © Copyright 2005. international and Pa	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			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  Form Type Distribute					* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ials and Mfg Information			
upplier In	nformation														
Company nan	me*	Company ur	Company unique ID			Unique ID Authority					Response Date*				
nsemi											2025-0	2025-06-08			
Contact Name	e	Title - Contact			1	Phone - Contact*				Email	Email - Contact*				
Product-Env	-Stewards		Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com			
uthorized R	epresentative*	Title - Representative			1	Phone - Representative*				Email	Email - Representative*				
Product-Env	-Stewards	Product Enviro Compliance				NA				Produ	Product-Env-Stewards@onsemi.com				
Re	Requester Item Number Mfr Item		m Number Mfr Item Name				Effective Date		Manufacturing Site		Weight*	UOM	Unit Type		
		MCH4020-TL-H BIP NPN 150mA 8V fT=160		8V fT=16G		2025-06-08			CNG		7.73	mg	Each		
Ianufactu	ring Proccess Informa	ation												·	
Ter	Terminal Plating / Grid Array Material			Terminal Base Alloy J-STD-020 MSI		SL Rating	Peak Process Body Temperat				ature Numl	per of Reflow Cyc	cles		
contains Bi		CU Alloy 1			260 C 30		30	sec	onds 3						
omments															
vel 1 - maxii	mum time at peak temperat	ure during sol	ldering is 10	30 seconds											
or more info	ormation regarding materia	l composition	please refer t	o page 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 independently verified and or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.04	mg	Supplier	Silicon (Si)	7440-21-3		0.04	mg
Lead Frame	3.1	mg	Supplier	Silver (Ag)	7440-22-4		0.0967	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0059	mg
			В	Nickel (Ni)	7440-02-0		0.0161	mg
			Supplier	Iron (Fe)	7439-89-6		0.0778	mg
			Supplier	Copper (Cu)	7440-50-8		2.8991	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0043	mg
Mold Compound-Black	4.5	mg		Epoxy Phenol Resin	proprietary data		0.036	mg
			Supplier	Carbon Black (C)	1333-86-4		0.045	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.27	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		3.6	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.54	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.009	mg
Plating	0.07	mg	В	Bismuth (Bi)	7440-69-9		0.0004	mg
			Supplier	Tin (Sn)	7440-31-5		0.0696	mg
Wire Bond - Au	0.02	mg	Supplier	Gold (Au)	7440-57-5		0.02	mg