Contact Name Title - Contact Product-Env-Stewards Product Enviro Compliance Authorized Representative* Product-Env-Stewards Pr	ASSOCIATION CONNECTING	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 lowel level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
Company name* Company unique ID Unique ID Authority Response Date* 2024-05-11 2024-05-11 Contact Name Product Enviro Compliance NA Product Enviro Compliance NA Product-Env-Stewards Authorized Representative* Phone - Representative* Phone - Representative* Phone - Representative* Product-Env-Stewards Product-Env-Stewards Product Enviro Compliance NA Product-Env-Stewards Pro	752-21.1											als and Mfg	g Informat	ion	
Semi	upplier Inform	ation													
Title - Contact NA Product Env-Stewards Authorized Representative* Product Env-Stewards Product Enviro Compliance Title - Representative Title - Representative Title - Representative Title - Representative Product Enviro Compliance NA Product Enviro Compliance NA Product Env-Stewards Product Enviro Compliance NA Product Env-Stewards Na Product Env-Stewards Na Product Env-Stewards Na Naunfacturing Site Naunfa	Company name*			Company un	Company unique ID			Unique ID Authority				Response Date*			
Product-Env-Stewards	nsemi											2024-05-11			
Authorized Representative* Product-Env-Stewards Product Enviro Compliance Requester Item Number Requester Item	Contact Name			Title - Contact			I	Phone - Contact*				Email - Contact*			
Product Enviro Compliance Requester Item Number Mfr Item Number Mfr Item Name Effective Date Version Manufacturing Site Weight* UOM Unit Description of the product Environce Weight with the product Environce W	Product-Env-Stewa	rds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Requester Item Number	uthorized Represei	ntative*	Title - Representative			I	Phone - Representative*				Email - Representative*				
BC847CWT1G SS SC70 GP XSTR NPN 45V 2024-05-11 CN1 6.0 mg Each	Product-Env-Stewa	rds		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com			
Manufacturing Proccess Information Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MSL Rating Peak Process Body Temperature Max Time at Peak Temperature Number of Reflow Cycles Matte Tin (Sn) - annealed CU Alloy 1 260 C 30 seconds 3	Requeste	Requester Item Number Mfr Item		•			Effective Date	Version	N	Manufacturing Site	W	eight*	UOM	Unit Type	
Terminal Plating / Grid Array Material Terminal Base Alloy J-STD-020 MSL Rating Peak Process Body Temperature Max Time at Peak Temperature Number of Reflow Cycles 260 Comments			BC847CV	WT1G	SS SC70 GP XSTR	R NPN 45V		2024-05-11		C	CN1	6.	0	mg	Each
Matte Tin (Sn) - annealed CU Alloy 1 260 C 30 seconds 3 omments				orminal Desa	Alloy	STD 020 MS1	Dating	Dook Pros	ans Dady T	Comporation	May Time at Peak	Tamparetu	ro Numb	per of Poflow Cyc	los
Comments	2					. Kanng									
	•	i (Sii) - anneaied	C	U Alloy	1			200		IC	30	second	s 3		
ver 1 - maximum ume at peak temperature during soldering is 10-50 seconds		ima at maak tammar-t	dunina c-l	domina ia 10-1	20 seconds										
or more information regarding material composition please refer to 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 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 uppliers 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 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 liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In t											
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	Substance	CAS	Exempt	Weight	Unit of Measure
Die	0.1	mg	Supplier	Silicon (Si)	7440-21-3		0.1	mg
Lead Frame	2.08	mg	В	Nickel (Ni)	7440-02-0		0.7966	mg
			Supplier	Iron (Fe)	7439-89-6		1.1003	mg
			Supplier	Copper (Cu)	7440-50-8		0.183	mg
Mold Compound-Black	3.7	mg	Supplier	Boron zinc hydroxide oxide	138265-88-0		0.111	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		0.0185	mg
			Supplier	2,4,6-triamino-s-triazincompd.withs-triazine-triol	37640-57-6		0.111	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		2.96	mg
			Supplier	Carbon Black (C)	1333-86-4		0.037	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		0.296	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.1665	mg
Plating	0.11	mg	Supplier	Tin (Sn)	7440-31-5		0.11	mg
Wire Bond	0.01	mg	Supplier	Palladium (Pd)	7440-05-3		0.0002	mg
			Supplier	Gold (Au)	7440-57-5		0	mg
			Supplier	Copper (Cu)	7440-50-8		0.0098	mg