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 lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.									
				Form Type Distribute										
Supplier	Information													
Company name* Compa				Company unique ID			Unique ID Authority				Response Date*			
onsemi											2024-04-29			
Contact N	ame		Title - Conta	Title - Contact			Phone - Contact*				Email - Contact*			
Product-H	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
Authorize	d Representative*	Title - Representative				Phone - Representative*				Email - Representative*				
Product-H	Env-Stewards	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date	Version	Manufacturing S	ite	Weigh	nt*	UOM	Unit Type
		LB8503V-TLM-E MOTOR SPEED C		CONTRAL IC		2024-04-29 PHM			80.0		mg	Each		
Manufacturing Process Information														
	Terminal Plating / Grid Array Material T		Terminal Base Alloy J-ST		J-STD-020 MSI	L Rating	Peak Proces	cess Body Temperature Max Time at Peak		Peak Tempe	Temperature Number		of Reflow Cycle	S
contains Bi C		CU Alloy 3		3		260	C	30	30 se		seconds 3			
Comments														
ATTENTION: MSL 3 Rated item requires Bake and Dry Pack (after electrical test)														
For 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 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 have 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 andConditions 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	Substance	CAS	Exempt	Weight	Unit of Measure
Die	2.0	mg	Supplier	Silicon (Si)	7440-21-3		1.9852	mg
			Supplier	Polyimide	Proprietary Data		0.0148	mg
Die Attach	0.39	mg	Supplier	Silver (Ag)	7440-22-4		0.2769	mg
			Supplier	Epoxy resins	129915-35-1		0.1131	mg
Lead Frame	6.56	mg	Supplier	Zinc (Zn)	7440-66-6		0.0085	mg
			Supplier	Iron (Fe)	7439-89-6		0.1542	mg
			Supplier	Copper (Cu)	7440-50-8		6.3921	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0052	mg
Mold Compound-Black	69.54	mg		Brominated epoxy resin	proprietary data		0.6954	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.5563	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.6954	mg
			Supplier	Carbon Black (C)	1333-86-4		0.6954	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		58.4136	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		8.3448	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.1391	mg
Plating	1.13	mg	В	Bismuth (Bi)	7440-69-9		0.0068	mg
			Supplier	Tin (Sn)	7440-31-5		1.1232	mg
Wire Bond - Au	0.38	mg	Supplier	Gold (Au)	7440-57-5		0.38	mg