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.										
1752-21.1	IDC Web Site for Information on IDC 1752 Standard Form Type				Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater					ous Materia	ials and Mfg Information				
Supplier	r Information														
Company name* Company unique ID				ique ID	Unique I			ique ID Authority				Response Date*			
nsemi												2023-06-08			
Contact N	ame	Title - Contact				Phone - Contact*				Email - Contact*					
Product-I	Env-Stewards		Product Envi	Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com				
uthorize	d Representative*	Title - Representative			Phone - Representative*				Email - Representative*						
Product-I	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
	Requester Item Number Mfr Item		Number Mfr Item Name				Effective Date Version Manufacturing Site		ng Site	W	eight*	UOM	Unit Type		
		GBU4A	GBU4A BR GBU4L GPF		4A 50V		2023-06-08	06-08 TSCBE			39	95.245	mg	Each	
I anufa	cturing Proccess Informa	ntion					,	1							
	Terminal Plating / Grid Array Material T		Terminal Base Alloy J-ST		STD-020 MSI	L Rating	Peak Process Body Tempera		Femperatur	ture Max Time at Peak Te		Temperatur	e Numbe	er of Reflow Cyc	cles
	Matte Tin (Sn) - annealed		CU Alloy NA		Α		0 C		30		seconds 3				
omments	S														
or more	information regarding materia	composition	please refer to	page 3											

RoHS Material Composition Declaration			Declaration Type *	Detailed							
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 knowledges 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 informationprovided 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 paragraph. If the Company and the Supplier supplier 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 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 of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.											
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substance	s per the definition above except for selected exemp	tions Supplier Acceptance	* Accepted							
Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).											
Exemption List Version	EL-2011/534/EU										
Declaration Signature											
Instructions: Complete all of the required f Requester) and click on Submit Form to ha		Accepted" on the Supplier Acceptance drop-dow	n. This will display the signature area. Digita	lly sign the declaration (if required by the							
Supplier Digital Signature Ra	astislav Drska	-En									

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	15.0	mg	Supplier	Silicon (Si)	7440-21-3		15	mg
Die Attach Solder	15.025	mg	Supplier	Silver (Ag)	7440-22-4		0.3756	mg
			A	Lead (Pb)	7439-92-1	7a	13.8981	mg
			Supplier	Tin (Sn)	7440-31-5		0.7512	mg
Lead Frame	1799.6	mg	Supplier	Iron (Fe)	7439-89-6		2.6994	mg
			Supplier	Copper (Cu)	7440-50-8		1796.0009	mg
			Supplier	Phosphorus (P)	7723-14-0		0.8998	mg
Mold Compound-Black	2160.0	mg		Epoxy resin	proprietary data		108	mg
			Supplier	Phenolic Resin	Proprietary Data		162	mg
			Supplier	Carbon Black (C)	1333-86-4		10.8	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		324	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1555.2001	mg
Plating	5.62	mg	Supplier	Tin (Sn)	7440-31-5		5.62	mg