	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.			nder both	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					Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					eous Materia	als and Mfg Information				
Supplie	r Information															
Company name* Compa				ompany unique ID			Unique ID Authority					Response Date*				
onsemi												2022-02-10				
Contact N	lame		Title - Contact				Phone - Conta	act*				Email - Contact*				
Product-l	Env-Stewards		Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com				
uthorize	ed Representative*		Title - Representative				Phone - Representative*				Email - Representative*					
Product-	Env-Stewards		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
	Requester Item Number Mfr Item MURF15						Effective Date	e Ve	Version Manufacturing Site		ring Site	V	Veight*	UOM	Unit Type	
							2022-02-10 KR8			2009.84		mg	Each			
/Ianufa	cturing Proccess Informat	ion							ľ					- 1		
	Terminal Plating / Grid Array Material		Terminal Base Alloy J-STD-020 M		J-STD-020 MS	L Rating	Peak Process Body Temperat		ure Max Time at Peak Tem		Temperat	are Numb	er of Reflow Cyc	eles		
	Matte Tin (Sn) - annealed		CU Alloy NA			0 C		С	30		second	is 3				
omments	3															
or more	information regarding material	composition	please refer to	page 3												

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	ng RoHS 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), Disobutyl phthalate (DIBP).											
cadmium, hexavalentchromium, polybromina contains a RoHS restricted substance inexces encompass all such components. Supplier cer as of the date that Supplier completes this for Company acknowledges that Supplier may h independently verified information provided certification in this paragraph. If the Company	ated biphenyls and/or polybrominated dip s of an applicable quantity limit, please in iffies that it gathered the information it pr m.Supplier acknowledges that Company ave relied on informationprovided by oth by others, Supplier agrees that, at a minir and the Supplier enter into a written agr esource of the Supplier's liability and the	henyl ethers (each a "RoHS restricted substa ndicate below which, if any, RoHS exemption ovides in this form using appropriate methoo will rely on this certification in determining ers in completing this form, and that Supplie num, itssuppliers have provided certification eement with respect to the identified part, the Company's remedies for issues that arise reg	nce") in exco n you believe ls to ensure i the compliar r may not ha s regarding t terms and co	e may apply. If the part is an assembly with low s accuracy and that such information is true an ce of its products with European Union member de independently verified such information. Ho neir contributions to the part, and those certifica	ove. If a homogeneous material within the part er level components, the declaration shall d correct to the best of its knowledge and belief, er state laws that implement the RoHS Directive. wever, in situations where Supplier has not ations are at least as comprehensive as the anty rights and/or remedies provided as part of							
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted subst	ances per the definition above except for sele	ected exempt	ions Supplier Acceptance	* Accepted							
Exemption: 7a: Lead in high melting temp	erature type solders (i.e. lead based sol	der alloys containing 85% by weight or m	ore lead).									
Exemption List Version	EL-2011/534/EU											
Declaration Signature												
Instructions: Complete all of the required Requester) and click on Submit Form to h			e drop-dowi	a. This will display the signature area. Digita	lly sign the declaration (if required by the							
Supplier Digital Signature	astislav Drska	Le										

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

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	3.55	mg	Supplier	Silicon (Si)	7440-21-3		3.55	mg
Die Attach	82.98	mg	Supplier	Silver (Ag)	7440-22-4		1.2447	mg
			А	Lead (Pb)	7439-92-1	7a	77.5863	mg
			Supplier	Tin (Sn)	7440-31-5		4.149	mg
Lead Frame	1236.66	mg	Supplier	Copper (Cu)	7440-50-8		1236.66	mg
Mold Compound-Black	Black 679.88	mg		Epoxy resin	proprietary data		47.5916	mg
			Supplier	Phenolic Resin	Proprietary Data		47.5916	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		101.982	mg
			Supplier	Carbon Black (C)	1333-86-4		3.3994	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		479.3154	mg
Plating	6.36	mg	Supplier	Tin (Sn)	7440-31-5		6.36	mg
Wire Bond - Al	0.41	mg	Supplier	Aluminum (Al)	7429-90-5		0.41	mg