ASSOCIATION CONNECTING ASSOCIATION CONNECTING Material Composition Dec © Copyright 2005. IPC, Bannockb international and Pan-American co	ourn. Illinois. All rights reserved ur	nder both This docum level parts,	nent is a declaratio the declaration en	n of the substance compasses all low	es within the manufacture ver level materials for wh	er listed item. Note: i nich the manufacture	f the item is an as has engineering	sembly with lower responsibility.	
IPC Web Site for Information on I http://www.ipc.org/IPC-175x	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information					
Supplier Information									
ompany name* Company unique ID			Unique ID Authority			Response Date*			
semi						2023-06-08			
Contact Name	Title - Contact		Phone - Contact*			Email - Contact*			
Product-Env-Stewards	s Product Enviro Compliance		NA			Product-Env-Stewards@onsemi.com			
thorized Representative* Title - Representative			Phone - Representative*			Email - Representative*			
Product-Env-Stewards Product Enviro Compliance			NA			Product-Env-Stewards@onsemi.com			
Requester Item Number Mfr Item	Number Mfr Item Name	Mfr Item Name		Version	Manufacturing Site	Weight*	UOM	Unit Type	
FODM2	17DV 4SO TR		2023-06-08		CP7	57.322	mg	Each	
Manufacturing Proccess Information	· · · · · · · · · · · · · · · · · · ·		·	·					
Terminal Plating / Grid Array Material T	erminal Base Alloy J.	-STD-020 MSL Rating	Peak Process Body Temperature Max Time a		ure Max Time at Peak	ak Temperature Number of Reflow Cycles			
Matte Tin (Sn) - annealed CU Alloy 1			260	С	30	seconds 3			
Comments									
evel 1 - maximum time at peak temperature during sol	dering is 10-30 seconds								
For 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	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).								
cadmium, hexavalentchromium, polybrominate contains a RoHS restricted substance inexcess encompass all such components. Supplier certif as of the date that Supplier completes this form Company acknowledges that Supplier may hav independently verified information provided by certification in this paragraph. If the Company a	ed biphenyls and/or polybrominated dip of an applicable quantity limit, please ir ies that it gathered the information it pro- .Supplier acknowledges that Company e relied on informationprovided by othe v others, Supplier agrees that, at a minin and the Supplier enter into a written agre pource of the Supplier's liability and the	henyl ethers (each a " ndicate below which, i ovides in this form us will rely on this certifiers in completing this num, itssuppliers have eement with respect to Company's remedies	RoHS restricted substance") in exce if any, RoHS exemption you believe ing appropriate methods to ensure if ication in determining the complian form, and that Supplier may not have e provided certifications regarding the to the identified part, the terms and co for issues that arise regarding inform	ce of its products with European Union membe	ove. If a homogeneous material within the part er level components, the declaration shall l correct to the best of its knowledge and belief, r state laws that implement the RoHS Directive. wever, in situations where Supplier has not tions are at least as comprehensive as the anty rights and/or remedies provided as part of				
RoHS Declaration * 1 - Item(s)	does not contain RoHS restricted substa	ances per the definitio	on above	Supplier Acceptance	* Accepted				
Exemption: If the declared item does not con applicable exemptions.	ntain RoHS restricted substances per	the definition above	except for defined RoHS exempti	ons, then select the corresponding response i	n the RoHS Declaration above and choose all				
Exemption List Version	EL-2011/534/EU								
Declaration Signature									
Instructions: Complete all of the required fin Requester) and click on Submit Form to have	elds on all pages of this form. Select the form returned to the Requester	he "Accepted" on th	e Supplier Acceptance drop-down	. This will display the signature area. Digital	lly sign the declaration (if required by the				
Supplier Digital Signature Ra	stislav 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.

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Coupling Gel	2.0	mg	Supplier	Filler (SiO2)	68909-20-6		0.4	mg
			Supplier	Dimethyl Siloxane	68083-19-2		1.6	mg
Die	0.16	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0518	mg
			Supplier	Silicon (Si)	7440-21-3		0.1051	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0031	mg
Die Attach Epoxy	0.48	mg	Supplier	Silver (Ag)	7440-22-4		0.408	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0312	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0096	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0312	mg
Lead Frame	21.956	mg	Supplier	Zinc (Zn)	7440-66-6		0.0263	mg
			Supplier	Iron (Fe)	7439-89-6		0.516	mg
			Supplier	Copper (Cu)	7440-50-8		21.4071	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0066	mg
Mold Compound-Black	18.1	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.353	mg
			Supplier	Carbon Black (C)	1333-86-4		0.181	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		1.629	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		12.67	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.267	mg
Mold Compound-White	14.126	mg	Supplier	Ortho Cresol Novolac Resin	29690-82-2		2.8252	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9.8882	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.4126	mg
Plating	0.1	mg	Supplier	Tin (Sn)	7440-31-5		0.1	mg
Wire Bond - Au	0.4	mg	Supplier	Gold (Au)	7440-57-5		0.4	mg

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).