	Material Composit © Copyright 2005. IPC, I international and Pan-Am	Bannockbu	urn, Illinois. A	ll rights reserved unitions.	Inder both Ieve	s docume el parts, tl	ent is a decl he declarati	aration on enco	of the substances ompasses all low	s within the manufact er level materials for	urer listed which the	item. Note: manufacture	if the item is an as er has engineering	ssembly with lower responsibility.	
					Form Type * Distribute					rials and I	ials and Mfg Information				
Supplier Informat	ion														
Company name*			Company unique ID			Unique ID Authority					Response Date*				
onsemi											2023-0	2023-06-08			
Contact Name			Title - Contact			]	Phone - Contact*				Email	Email - Contact*			
Product-Env-Stewards			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Authorized Representative* T			Title - Representative			Phone - Representative*			Email	Email - Representative*					
Product-Env-Stewards			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com				
Requester It	Requester Item Number Mfr Item		Number Mfr Item Name				Effective I	Date	Version	Manufacturing Site		Weight*	UOM	Unit Type	
		TCP-5039UB-DT		WLCSP6, 3.9pf high Q PTIC in tape and reel		2023-06-0	8		РНМ		0.897	mg	Each		
Manufacturing Pr	occess Information	l										,			
Terminal Plating / Grid Array Material Terminal			erminal Base A	se Alloy J-STD-020 MSL Rating		ting	Peak Process Body Temperature Max Time		ure Max Time at Pea	ak Temperature Number of Reflow Cycles					
NE CU Alloy				1		260		С	30	seco	onds 3				
Comments															
level 1 - maximum time	e at peak temperature d	uring solo	dering is 10-3	0 seconds											
For more information	regarding material com	position p	please refer to	page 3											

RoHS Material Composition Declaration				Declaration Type *	Detailed							
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	BoHS 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).   neous 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, 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	ess of the applicable quantity limit identified about the may apply. If the part is an assembly with low is accuracy and that such information is true and ce of its products with European Union member we independently verified such information. How	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	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
Backside Protection Film	0.036	mg		Epoxy resin	proprietary data		0.0108	mg
			Supplier	Poly(Ethylene Terephthalate) (C10H8O4)	25038-59-9		0.0216	mg
			Supplier	Silicone polymer	Proprietary Data		0.0014	mg
			Supplier	Carbon Black (C)	1333-86-4		0.0007	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.0011	mg
			Supplier	Acrylic resins	Proprietary Data		0.0004	mg
Plating	0.0033	mg	Supplier	Silver (Ag)	7440-22-4		0.0004	mg
			В	Nickel (Ni)	7440-02-0		0.0019	mg
			Supplier	Gold (Au)	7440-57-5		0.001	mg
Solder Ball	0.0398	mg	Supplier	Silver (Ag)	7440-22-4		0.0012	mg
			Supplier	Tin (Sn)	7440-31-5		0.0384	mg
			Supplier	Copper (Cu)	7440-50-8		0.0002	mg
Substrate	0.8179	mg	Supplier	BST (BaSrTiO3)	12430-73-8		0.001	mg
			Supplier	Silicon Nitride Si3N4	12033-89-5		0.0334	mg
			Supplier	Titanium (Ti)	7440-32-6		0.0001	mg
			Supplier	Platinum (Pt)	7440-06-4		0.0025	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		0.0057	mg
			Supplier	Chromium (Cr)	7440-47-3		0	mg
			Supplier	Silicon (Si)	7440-21-3		0	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.772	mg
			Supplier	Copper (Cu)	7440-50-8		0	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0032	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).