© Copyright 2005.	© Convright 2005 TPC Bannockburn Illinois All rights reserved under 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.								
	IPC Web Site for Information on IPC-1752 Standard For http://www.ipc.org/IPC-175x Dis				ype * Declaration Class * te Class 6 - RoHS Yes/No, Homogeneous Mater				ials and N	ials and Mfg Information				
Supplier Information														
Company name*	Company un	Company unique ID			Unique ID Authority					Response Date*				
onsemi										2022-02	2022-02-10			
Contact Name Title - Contact			ontact			Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards Product E			oduct Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title - R			le - Representative			Phone - Representative*			Email -	Email - Representative*				
Product-Env-Stewards Pro			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item Number		Mfr Item Name			Effective Date	Version	N	Manufacturing Site		Weight*	UOM	Unit Type	
	HCPL25	ICPL2531SD 8PB 11		3PB 1MB 2-CH T&R		2022-02-10		I	LITEONFG		542.964	mg	Each	
Manufacturing Proccess Informa	tion						·							
Terminal Plating / Grid Array M	Terminal Plating / Grid Array Material Terminal Base A		Alloy J	J-STD-020 MSL Rating		Peak Process Body Temperature		e Max Time at Peak Temperatu		ture Numb	per of Reflow Cyc	cles		
Matte Tin (Sn) - annealed CU Alloy		1	1		225		С	30	seco	nds 3				
Comments														
level 1 - maximum time at peak temperat	are during so	dering is 10-3	0 seconds											
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	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), Dibutyl phthalate (DBP), Dibutyl phthalate (DBP).										
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 cc 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	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	64.0	mg	Supplier	3-Methacryloxypropyltrimethoxysilane (C10H20O5Si)	2530-85-0		64	mg
Die	0.099	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.033	mg
			Supplier	Silicon (Si)	7440-21-3		0.066	mg
Die Attach	0.25	mg	Supplier	Silver (Ag)	7440-22-4		0.2075	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		0.0425	mg
Lead Frame	115.0	mg	Supplier	Zinc (Zn)	7440-66-6		0.138	mg
			Supplier	Iron (Fe)	7439-89-6		2.7125	mg
			Supplier	Copper (Cu)	7440-50-8		112.125	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0245	mg
Mold Compound-Black	93.303	mg	Supplier	Brominated Epoxy Resin-2	68541-56-0		2.3325	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		13.995	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		1.866	mg
			Supplier	Carbon Black (C)	1333-86-4		0.4695	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		65.31	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		9.33	mg
Mold Compound-White	258.662	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		52.4	mg
			Supplier	Zirconium Dioxide (ZrO2)	1314-23-4		1.3	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		196.662	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		5.6	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		2.7	mg
Plating	11.6	mg	Supplier	Tin (Sn)	7440-31-5		11.6	mg
Wire Bond - Au	0.05	mg	Supplier	Gold (Au)	7440-57-5		0.05	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).