© Copyright	Composition Dec 2005. IPC, Bannockt and Pan-American co	urn, Illinois. A	ll rights reserved un ntions.	nder both	This docume level parts, t	ent is a declarati he declaration e	on of the su	ibstances v s all lower	within the manufactur level materials for w	rer listed it hich the m	em. Note: i anufacture	f the item is an as r has engineering	sembly with lower responsibility.
	IPC Web Site for Information on IPC-1752 Standard Form Tyj http://www.ipc.org/IPC-175x Distributed				* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi					als and Mfg Information			
Supplier Information													
Company name* Co			Company unique ID			Unique ID Authority				Response Date*			
onsemi										2023-06-08			
Contact Name Title			Title - Contact			Phone - Contact*				Email - Contact*			
Product-Env-Stewards Pro			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Authorized Representative* Title -			Citle - Representative			Phone - Representative*			Email - Representative*				
Product-Env-Stewards Produc			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Number	Mfr Item	Number	Mfr Item Name			Effective Date	Version	M	Manufacturing Site		Weight*	UOM	Unit Type
	LV51130)T-TLM-E	2-cell LiB protection			2023-06-08		P	РНМ		20.0	mg	Each
Manufacturing Proccess Inf	ormation												
Terminal Plating / Grid A	Terminal Plating / Grid Array Material Terminal Bas		Alloy J-STD-020 MSL Rating		Rating	Peak Process Body Temperature Max Tim		e Max Time at Peak	eak Temperature Number of Reflow Cycles		les		
contains Bi CU Alloy		CU Alloy	3			260 C		30 seco		ds 3			
Comments													
ATTENTION: MSL 3 Rated item 1	requires Bake and D	ry Pack (after	electrical test)										
For more information regarding m	aterial composition	please refer to	page 3										

RoHS Material Composition Declaration				Declaration Type *	Detailed					
Directive 2015/863/EU amending RoHS Directive 2011/65/EU	toHS 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 hthalate (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 y 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	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
Die	1.86	mg	Supplier	Silicon (Si)	7440-21-3		1.86	mg
Die Attach	0.18	mg	Supplier	Silver (Ag)	7440-22-4		0.1377	mg
			Supplier	Epoxy resins	129915-35-1		0.0423	mg
Lead Frame	6.63	mg	Supplier	Zinc (Zn)	7440-66-6		0.0126	mg
			Supplier	Iron (Fe)	7439-89-6		0.1717	mg
			Supplier	Copper (Cu)	7440-50-8		6.4364	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0093	mg
Mold Compound-Black	10.74	mg		Brominated epoxy resin	proprietary data		0.2148	mg
			Supplier	Epoxy Phenol Resin	Proprietary Data		0.1074	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.2148	mg
			Supplier	Carbon Black (C)	1333-86-4		0.1074	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8.1946	mg
			Supplier	Ortho-Cresol Novolac Resin	29690-82-2		1.8795	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		0.0215	mg
Plating	0.52	mg	В	Bismuth (Bi)	7440-69-9		0.0031	mg
			Supplier	Tin (Sn)	7440-31-5		0.5169	mg
Wire Bond - Au	0.07	mg	Supplier	Gold (Au)	7440-57-5		0.07	mg