© Copyright	Composition De t 2005. IPC, Bannockt l and Pan-American co	ourn, Illinois. A	Il rights reserved untions.	under both	This docume level parts, t	ent is a declara he declaration	tion of the encompass	substances es all low	s within the manufactu er level materials for v	urer listed which the	item. Note: nanufacture	if the item is an as er has engineering	sembly with lower responsibility.	
				Form Type Distribute	 Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi 				rials and N	als and Mfg Information				
Supplier Information														
Company name*	Company un	Company unique ID			Unique ID Authority				Respon	Response Date*				
onsemi									2024-05	2024-05-02				
Contact Name Titl			Title - Contact			Phone - Contact*				Email -	Email - Contact*			
Product-Env-Stewards P			Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com			
Authorized Representative* Tit			Title - Representative			Phone - Representative*			Email -	Email - Representative*				
Product-Env-Stewards	Product Enviro Compliance			NA				Produ	Product-Env-Stewards@onsemi.com					
Requester Item Number Mfr Iten		Number Mfr Item Name				Effective Da	te Version	1	Manufacturing Site		Weight*	UOM	Unit Type	
	LV52204	LV52204MUTBG LED		LED		2024-05-02			MY1		8.04	mg	Each	
Manufacturing Proccess In	formation													
Terminal Plating / Grid A	Terminal Plating / Grid Array Material Terminal Bas		Alloy	J-STD-020 MS	L Rating	Peak Pro	cess Body	Temperatu	are Max Time at Peal	k Tempera	ture Num	ber of Reflow Cy	cles	
Matte Tin (Sn) - annealed CU Alloy		CU Alloy		1		260		С	30	seco	nds 3			
Comments														
level 1 - maximum time at peak te	mperature during so	ldering is 10-3	0 seconds											
For more information regarding n	naterial 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 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 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	ances per the definitio	on above	Supplier Acceptance	* Accepted						
Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.											
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.

sigma range of distribution unless otherwise noted).									
omogeneous Material Weight Uni		Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure	
Die	0.2	mg	Supplier	Silicon (Si)	7440-21-3		0.2	mg	
Die Attach	0.26	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.052	mg	
			Supplier	Silver (Ag)	7440-22-4		0.208	mg	
Lead Frame	2.98	mg	Supplier	Silver (Ag)	7440-22-4		0.0054	mg	
			Supplier	Tin (Sn)	7440-31-5		0.0077	mg	
			Supplier	Zinc (Zn)	7440-66-6		0.0074	mg	
			Supplier	Chromium (Cr)	7440-47-3		0.008	mg	
			Supplier	Copper (Cu)	7440-50-8		2.9514	mg	
Mold Compound-Black	3.8	mg		Epoxy Phenol Resin	proprietary data		0.342	mg	
			Supplier	Fused Silica (SiO2)	60676-86-0		3.458	mg	
Plating	0.74	mg	Supplier	Tin (Sn)	7440-31-5		0.74	mg	
Wire Bond - Au	0.06	mg	Supplier	Gold (Au)	7440-57-5		0.06	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 signa range of distribution unless otherwise noted)