© Copyr	ial Composition right 2005. IPC, Ban onal and Pan-Ameri	nockburn, Illinois	All rights reserved ventions.	under both	This docume level parts, t	ent is a declarati he declaration e	on of the su ncompasses	bstances v s all lower	within the manufactur level materials for w	rer listed ite hich the ma	em. Note: i anufacture	if the item is an as r has engineering	sembly with low responsibility.
				Form Type Distribute	* Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi				ials and Mf	als and Mfg Information			
Supplier Information													
Company name* Con			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 -			Fitle - Representative			Phone - Representative*				Email - Representative*			
Product-Env-Stewards Pro			Product Enviro Compliance			NA				Product-Env-Stewards@onsemi.com			
Requester Item Num	er Item Number Mfr Item Nu		Number Mfr Item Name			Effective Date	te Version Manufacturing Site		v	/eight*	UOM	Unit Type	
	HN	MHA2801AR2	4SO TR T&R	4SO TR T&R		2023-06-08		L	LITEONFG		4.749	mg	Each
Ianufacturing Proccess	Information											I	L
Terminal Plating / Grid Array Material Terminal B		e Alloy J-STD-020 MSL Rati		L Rating	Peak Proc	k Process Body Temperature		e Max Time at Peak	ak Temperature Nur		ber of Reflow Cyc	eles	
Matte Tin (Sn) - annealed C		CU Alloy	U Alloy 1			<b>245</b> C		С	30 seco		s 3		
omments													
vel 1 - maximum time at peak	k temperature duri	ing soldering is 1	-30 seconds										
or more information regardin	ng material compos	sition please refe	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 (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 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
Die	0.267	mg	В	Gallium Arsenide (AsGa)	1303-00-0		0.0864	mg
			Supplier	Silicon (Si)	7440-21-3		0.1754	mg
			Supplier	Aluminum (Al)	7429-90-5		0.0052	mg
Die Attach	0.021	mg	Supplier	Silver (Ag)	7440-22-4		0.0172	mg
			Supplier	Dicyandiamine	461-58-5		0.0002	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0036	mg
Lead Frame	13.225	mg	Supplier	Silver (Ag)	7440-22-4		0.6784	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0238	mg
			Supplier	Iron (Fe)	7439-89-6		0.3253	mg
			Supplier	Copper (Cu)	7440-50-8		12.1789	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0185	mg
Mold Compound-White	31.422	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		7.8555	mg
			В	Brominated Bisphenol A Diglycidyl Ether	40039-93-8		0.9427	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		4.242	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.9427	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		15.711	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1.7282	mg
lating	0.961	mg	Supplier	Tin (Sn)	7440-31-5		0.961	mg
Protective Coating	8.8	mg	Supplier	Poly(dimethylsiloxane), hydroxy terminated	70131-67-8		4.4	mg
			Supplier	Ethylbenzene	100-41-4		0.88	mg
			Supplier	Filler (SiO2)	68909-20-6		1.672	mg
			Supplier	Misc.	Proprietary Data		0.088	mg
			Supplier	Xylene	1330-20-7		1.76	mg
Wire Bond - Au	0.053	mg	Supplier	Gold (Au)	7440-57-5		0.053	mg