	Material Composit © Copyright 2005. IPC, international and Pan-An	Bannockb	urn, Illinois. A	ll rights reserved u ntions.	nder both	This docume level parts, t	ent is a decla he declaratio	ration of the neuron of the ne	he substances asses all lowe	within the r level mate	manufacture erials for wh	er listed ite ich the m	em. Note: anufactur	if the item er has engin	is an assem neering resp	bly with lower onsibility.
1752-21.1	IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Distribute				*	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Mater						als and Mfg Information				
Supplier Informa	tion															
Company name*	Company unique ID				Unique ID Authority					Response Date*						
onsemi										2023-06-08						
Contact Name	Title - Contact				Phone - Contact*					Email - Contact*						
Product-Env-Steward	Product Enviro Compliance				NA					Product-Env-Stewards@onsemi.com						
Authorized Represent	Title - Representative			Phone - Representative*				Email - Representative*								
Product-Env-Stewards			Product Enviro Compliance			NA					Product-Env-Stewards@onsemi.com					
Requester	Requester Item Number Mfr Item		Number Mfr Item Name				Effective D	ve Date Version Manufacturing Site		ing Site	V	/eight*	UON	Л	Unit Type	
	ESDR05		02NMUTBG	TBG LOW CAP TVS ARRAY			2023-06-08		-	MY1		1	.65	mg		Each
Manufacturing P	roccess Information	l						1				ł				
Terminal Pl	Terminal Plating / Grid Array Material		rminal Base Alloy J-STD-02		-STD-020 MS	L Rating	Peak P	rocess Bod	ess Body Temperature		e Max Time at Peak Tempera		ature Number of Reflow Cycles			
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)			U Alloy 1		l		260		С	30		seconds 3				
Comments																
evel 1 - maximum tin	e at peak temperature d	luring sol	dering is 10-3	0 seconds												
or more information	regarding material com	position	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), Disobutyl 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 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	0.06	mg	Supplier	Silicon (Si)	7440-21-3		0.06	mg
Die Attach	0.01	mg	Supplier	Epoxized Condensate Of Para- Hydrobenzaldehyde And Alkyl Phenol	129915-35-1		0.0032	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.0068	mg
Lead Frame	0.53	mg	Supplier	Tin (Sn)	7440-31-5		0.0013	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0012	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0013	mg
			Supplier	Copper (Cu)	7440-50-8		0.5262	mg
Mold Compound-Black	1.01	mg	Supplier	Epoxy and Phenolic Resin	40216-08-8		0.0808	mg
			Supplier	Carbon Black (C)	1333-86-4		0.005	mg
			Supplier	Aluminum Hydroxide (Al(OH)3)	21645-51-2		0.0202	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		0.8737	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		0.0303	mg
Plating	0.01	mg	Supplier	Palladium (Pd)	7440-05-3		0.0002	mg
			В	Nickel (Ni)	7440-02-0		0.0088	mg
			Supplier	Gold (Au)	7440-57-5		0.001	mg
Wire Bond - Au	0.03	mg	Supplier	Gold (Au)	7440-57-5		0.03	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).