IPC ASSOCIATION ELECTRONICS	Material Compo © Copyright 2005. If s INDUSTRIES® international and Pan	PC. Bannockl	burn, Illinois, A	ll rights reserved ations.	under both	This docume level parts, the	ent is a declaration	ation of n encom	the substances passes all lowe	within ther level m	e manufactu aterials for v	arer listed it which the m	em. Nanufac	ote: if the	item is an as engineering	ssembly with loweresponsibility.
IPC Web Site for Information on IPC-1752 Standard Forr http://www.ipc.org/IPC-175x Dist					Form Type Distribute	e *	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information									
Supplier	· Information															
Company name* Company unique ID				que ID		Unique ID Authority Response Dat						e Date	Date*			
onsemi												2024-04-	30			
Contact Na	ame		Title - Contac	et]	Phone - Contact*				Email - Contact*					
Product-E	Env-Stewards		Product Envir	ro Compliance			NA					Product	-Env-	-Stewards	s@onsemi.co	om
Authorized	d Representative*	Title - Repres	Title - Representative			Phone - Representative*				Email - Representative*						
Product-E	Env-Stewards		Product Envir	et Enviro Compliance NA Product-Env-Stewards					s@onsemi.co	om						
	Requester Item Number Mfr Iten		n Number	Number Mfr Item Name			Effective Date	ite Vei	rsion	Manufacturing Site		Weight*		t*	UOM	Unit Type
	AR0237. 0-DR		IRSH12SHRA	SHRA 2MP 1/3 CIS SO			2024-04-30			TA1		2	64.22		mg	Each
A anufac	cturing Proccess Informat	ion														
	Terminal Plating / Grid Array Material Terminal			Alloy	J-STD-020 MSL Rating		Peak Process I		Body Temperature Max Time at Peak		Temperature Number		Number of	f Reflow Cyc	cles	
	Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)		CU Alloy		4		260 C		30		secono	is 3	3			
Comments							-		•	-			•			
or more i	information regarding material	composition	please refer to	page 3												

RoHS Material Composition Declaration			Declaration Type *	Detail	ed
Directive 2015/863/EU amending RoHS Directive 2011/65/EU		ium (Cr6+), Polybrominated Biphenyls (PB)	erial for Cadmium and quantity limit of 0.1% b B), Polybrominated Diphenyl Ethers (PBDE), a		
cadmium, hexavalentchromium, polybromin contains a RoHS restricted substance inexce encompass all such components. Supplier cet as of the date that Supplier completes this Company acknowledges that Supplier may hindependently verified information provided certification in this paragraph. If the Compan	nated biphenyls and/or polybrominated diphess of an applicable quantity limit, please indriffes that it gathered the information it provom. Supplier acknowledges that Company wave relied on informationprovided by others of the supplier agrees that, at a minimusy and the Supplier enter into a written agree yesource of the Supplier's liability and the C	enyl ethers (each a "RoHS restricted substan licate below which, if any, RoHS exemption vides in this form using appropriate methods vill rely on this certification in determining the s in completing this form, and that Supplier um, itssuppliers have provided certifications ement with respect to the identified part, the tompany's remedies for issues that arise rega	s of the European Union member states) of the ce") in excess of the applicable quantity limit is you believe may apply. If the part is an assemb to ensure its accuracy and that such informatio e compliance of its products with European Ur may not have independently verified such infor regarding their contributions to the part, and the erms and conditions of that agreement, including information the Supplier provides in this	dentified above. If a ally with lower level in is true and correct tion member state la mation. However, in ose certifications are ag any warranty righ	homogeneous material within the part components, the declaration shall to the best of its knowledge and belief, was that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the lats and/or remedies provided as part of
RoHS Declaration * 1 - Item	(s) does not contain RoHS restricted substar	nces per the definition above	Supplier A	cceptance *	Accepted
Exemption: If the declared item does not applicable exemptions.	contain RoHS restricted substances per t	he definition above except for defined Rol	IS exemptions, then select the corresponding	response in the R	oHS Declaration above and choose all
Exemption List Version	EL-2011/534/EU				
Declaration Signature					
		e "Accepted" on the Supplier Acceptance	drop-down. This will display the signature a	rea. Digitally sign t	the declaration (if required by the

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.

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).

Homogeneous Material	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Die	57.0	mg		Misc.	proprietary data		0.2166	mg
			Supplier	Silicon (Si)	7440-21-3		56.2191	mg
			Supplier	Aluminum (Al)	7429-90-5		0.5643	mg
Die Attach	2.5	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.9375	mg
			Supplier	Ethylene Glycol	107-21-1		0.025	mg
			Supplier	Sulfonium (Thiodi-4,1-phenylene)	89452-37-9		0.075	mg
			Supplier	Modified Silicon Dioxide (SiO2)	67762-90-7		0.525	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.9375	mg
Imaging Lens	60.5	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		3.025	mg
			Supplier	Sodium Monoxide (Na2O)	7429-90-5 25068-38-6 107-21-1 89452-37-9 67762-90-7 9003-36-5 13463-67-7 1313-59-3 1303-86-2 1314-13-2 1309-64-4 1344-28-1 12136-45-7 14808-60-7 25068-38-6 68909-20-6 Proprietary Data 9003-36-5 proprietary data 39817-09-9 2425-79-8 1333-86-4 60676-86-0 14808-60-7 98-86-2		3.025	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		3.025	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		3.025	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.3025	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		3.025	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		3.025	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		42.0475	mg
Lid Attach	2.6	mg	Supplier	Bisphenol A_Epichlorohydrin Polymer	25068-38-6		0.8216	mg
			Supplier	Filler (SiO2)	68909-20-6		0.1352	mg
			Supplier	Epoxy Prepolymer	Proprietary Data		0.8216	mg
			Supplier	Formaldehyde Polymer	9003-36-5		0.8216	mg
Mold Compound-Black	54.0	mg		Phenolic Resin	proprietary data		8.1	mg
			Supplier	Oxirane	39817-09-9		8.1	mg
			Supplier	1,4-Bis(2,3-epoxypropoxy)butane	2425-79-8		1.62	mg
			Supplier	Carbon Black (C)	1333-86-4		0.54	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		34.56	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		1.08	mg
Substrate and Solder Mask	87.4	mg	Supplier	Acetophenone	98-86-2		1.713	mg
			Supplier	Fiber Glass (SiO2)	65997-17-3		19.3941	mg
			Supplier	Inorganic Filler of Solder Mask_Talc (Mg3Si4O10(OH)2)	14807-96-6		1.1449	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		1.1537	mg
			Supplier	Carbon Black (C)	1333-86-4		0.2884	mg

			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8	0.2884	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5	3.4261	mg
			Supplier	Bismaleimide Triazine resin	Proprietary Data	8.74	mg
			Supplier	Copper (Cu)	7440-50-8	42.389	mg
			Supplier	Barium Sulfate (BaSO4)	7727-43-7	8.8624	mg
Wire Bond - Au	0.22	mg	Supplier	Gold (Au)	7440-57-5	0.22	mg