IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES	Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.				This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.										
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 Materi					Ifg Informat	ion			
Supplier Inform															
Company name*			Company unique ID			τ	Unique ID Authority					Response Date*			
onsemi										2023-00	2023-06-08				
Contact Name		Title - Contact			1	Phone - Contact*				Email -	Email - Contact*				
Product-Env-Stewa	rds		Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com				
uthorized Represei	ntative*	Title - Representative]	Phone - Representative*				Email - Representative*					
Product-Env-Stewa	rds	Product Enviro Compliance				NA				Product-Env-Stewards@onsemi.com					
Requester	Requester Item Number M		Mfr Item Number Mfr Item Name					e Versi	on	Manufacturing Site		Weight*	UOM	Unit Type	
		KA431ADTF SHUNT-REG 1% 8-SOIC		8-SOIC		2023-06-08			CN5		83.697	mg	Each		
	Process Information			A.11	CTD 020 MC	N. D. C	D 1 D	D 1	T	M. Till (D.	- T		SD G G	1	
3		,		-STD-020 MS	SL Rating		cess Body	ess Body Temperature Max Time at Peak				er of Reflow Cyc	eles		
'	(Sn) - annealed	C	CU Alloy				260		IC.	30	seco	nds 3			
omments			Ji :- 10 1	201-											
	me at peak temperatur														
r more informatio	on regarding material co	omposition j	piease refer to	o page 3											

RoHS Material Composition Declaration			Declaration Type *	Detail	ed					
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).										
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information is true and correct to the best of its knowledge and belief, as of the date that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.										
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 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										
		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	2.78	mg	Supplier	Silicon (Si)	7440-21-3		2.78	mg
Die Attach	0.718	mg	Supplier	Silver (Ag)	7440-22-4		0.5636	mg
			Supplier	Phenolic Resin-2	54208-63-8		0.1544	mg
Lead Frame	38.599	mg	Supplier	Silver (Ag)	7440-22-4		0.077	mg
			Supplier	Zinc (Zn)	7440-66-6		0.05	mg
			Supplier	Iron (Fe)	7439-89-6		0.926	mg
			Supplier	Copper (Cu)	7440-50-8		37.531	mg
			Supplier	Phosphorus (P)	7723-14-0		0.015	mg
Mold Compound-Black	39.401	mg	Supplier	2,6-dibromo-4-[1-(3-bromo-4-hydroxyphenyl)-1-methylethyl]phenol	6386-73-8		0.394	mg
			Supplier	Ortho Cresol Novolac Resin	29690-82-2		11.426	mg
			В	Antimony Trioxide (Sb2O3)	1309-64-4		0.788	mg
			Supplier	Carbon Black (C)	1333-86-4		0.296	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		26.497	mg
Plating	2.0	mg	Supplier	Tin (Sn)	7440-31-5		2	mg
Wire Bond - Au	0.199	mg	Supplier	Gold (Au)	7440-57-5		0.199	mg