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.								
52-21.1 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 Materials and Mfg Information					on			
Supplier Information													
Company name* Company unique ID			ique ID		Unique ID Authority Response				onse Date*				
onsemi										2024-05-15			
Contact Name T			Title - Contact			Phone - Contact*			Email	Email - Contact*			
Product-Env-Stewards		Product Envi	Product Enviro Compliance			NA			Prod	Product-Env-Stewards@onsemi.com			
Authorized Representative* Title			sentative	ative Pl			Phone - Representative*			Email - Representative*			
Product-Env-Stewards	Product Envi	oduct Enviro Compliance NA Product-Env-Stewards				rds@onsemi.c	om						
Requester Item Numb	Requester Item Number Mfr Item		Number Mfr Item Name			Effective Date	Version	Manufacturing S	Site	Weight*	UOM	Unit Type	
	FAM04	V18DT1	APM20 40V			2024-05-15		СРА		19409.16	mg	Each	
Manufacturing Proccess	Information						,			,			
Terminal Plating / Grid Array Material Te		Terminal Base	Alloy J-	J-STD-020 MSL R		Peak Proc	eak Process Body Temperature Max Time at Peal		t Peak Tempe	rature Numbe	er of Reflow Cy	cles	
Matte Tin (Sn) - anno	ealed	CU Alloy	N	NA		0		<b>30</b>	sec	conds 3			
Comments					· · · · · · · · · · · · · · · · · · ·								
or more information regarding	material composition	nlease refer to	nage 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 it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges 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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its uppliers 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 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).

<b>Homogeneous Material</b>	Weight	Unit of Measure	Level	Substance	CAS	Exempt	Weight	Unit of Measure
Bushings	1.16	mg	Supplier	Tin (Sn)	7440-31-5		0.0026	mg
			Supplier	Zinc (Zn)	7440-66-6		0.4541	mg
			Supplier	Iron (Fe)	7439-89-6		0.0026	mg
			Supplier	Copper (Cu)	7440-50-8		0.7006	mg
Capacitor	85.0	mg	Supplier	Tin (Sn)	7440-31-5		0.612	mg
			В	Nickel (Ni)	7440-02-0		2.21	mg
			Supplier	Lead Bisilicate	65997-18-4		0.17	mg
			Supplier	Barium Titanate (BaO3Ti)	12047-27-7		77.52	mg
			Supplier	Copper (Cu)	7440-50-8		4.488	mg
DBC	4761.0	mg	Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		1904.4	mg
			Supplier	Copper (Cu)	7440-50-8		2856.6001	mg
Die	52.0	mg	Supplier	Silicon (Si)	7440-21-3		52	mg
Lead Frame	4224.0	mg	В	Nickel (Ni)	7440-02-0		0.0422	mg
			Supplier	Iron (Fe)	7439-89-6		4.224	mg
			Supplier	Copper (Cu)	7440-50-8		4218.8887	mg
			Supplier	Phosphorus (P)	7723-14-0		0.8448	mg
Mold Compound-Black	9904.0	mg	Supplier	Carbon Black (C)	1333-86-4		99.04	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		8418.4004	mg
			Supplier	Phenolic Resin (Novolac)	9003-35-4		1386.5601	mg
NTC	10.0	mg	Supplier	Silver (Ag)	7440-22-4		0.0979	mg
			Supplier	Tin (Sn)	7440-31-5		0.02	mg
			Supplier	Nickel Oxide (NiO)	1313-99-1		3.9169	mg
			Supplier	Palladium (Pd)	7440-05-3		0.0999	mg
			В	Nickel (Ni)	7440-02-0		0.01	mg
			Supplier	Cobalt Oxide (Co3O4)	1308-06-1		0.3997	mg
			Supplier	Manganese Tetraoxide (Mn3O4)	1317-35-7		5.4556	mg
Plating	90.0	mg	Supplier	Tin (Sn)	7440-31-5		90	mg
Resistor	22.0	mg	Supplier	Acrylic AE Copolymer	58152-79-7		1.1	mg
			Supplier	Filler (SiO2)	68909-20-6		0.33	mg
			Supplier	Tin (Sn)	7440-31-5		0.418	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		0.066	mg
			Supplier	Calcium Oxide (CaO)	60873-85-0		0.066	mg

			Supplier	Chromium (Cr)	7440-47-3	0.0088	mg
			Supplier	Misc.	Proprietary Data	0.572	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1	10.67	mg
			В	Nickel (Ni)	7440-02-0	3.366	mg
			Supplier	Iron (Fe)	7439-89-6	5.3152	mg
			Supplier	Copper (Cu)	7440-50-8	0.088	mg
Solder Paste	53.0	mg	Supplier	Silver (Ag)	7440-22-4	1.59	mg
			Supplier	Tin (Sn)	7440-31-5	51.145	mg
			Supplier	Copper (Cu)	7440-50-8	0.265	mg
Wire Bond - Al	207.0	mg	Supplier	Aluminum (Al)	7429-90-5	207	mg