

		<b>Material Composition Declaration</b> © 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 <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>		Form Type * Distribute		Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information			
Supplier Information									
Company name* <b>onsemi</b>			Company unique ID		Unique ID Authority		Response Date* <b>2024-04-19</b>		
Contact Name <b>Product-Env-Stewards</b>			Title - Contact Product Enviro Compliance		Phone - Contact* <b>NA</b>		Email - Contact* <b>Product-Env-Stewards@onsemi.com</b>		
Authorized Representative* <b>Product-Env-Stewards</b>			Title - Representative Product Enviro Compliance		Phone - Representative* <b>NA</b>		Email - Representative* <b>Product-Env-Stewards@onsemi.com</b>		
	Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
		FDMF5049	90A High Efficiency Gen4 Smart Power Stage in 4x6	2024-04-19		PBB	106.7	mg	Each
Manufacturing Process Information									
	Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature		Max Time at Peak Temperature		Number of Reflow Cycles	
	<b>Matte Tin (Sn) - annealed</b>	<b>CU Alloy</b>	<b>1</b>	<b>260</b>	<b>C</b>	<b>30</b>	seconds	<b>3</b>	
Comments									
<b>level 1 - maximum time at peak temperature during soldering is 10-30 seconds</b>									
<b>For more information regarding material composition please refer to page 3</b>									

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), Diisobutyl phthalate (DIBP).		
<p>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 in excess 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 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 has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers 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 exclusive source 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.</p>			
RoHS Declaration *	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions		Supplier Acceptance * Accepted
<b>Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).</b>			
Exemption List Version	EL-2011/534/EU		
Declaration Signature			
<b>Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.</b>			
Supplier Digital Signature	Rastislav Drska		

## 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
Capacitors Ceramic	1.5	mg	Supplier	Tin (Sn)	7440-31-5		0.0353	mg
			Supplier	Chromium (Cr)	7440-47-3		0.0005	mg
			Supplier	Ceramic	12013-47-7, 12047-27-7		0.192	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		0.5443	mg
			B	Nickel (Ni)	7440-02-0		0.0246	mg
			Supplier	Iron (Fe)	7439-89-6		0.6313	mg
			Supplier	Silicon Dioxide (SiO2)	99493-55-7		0.0635	mg
			Supplier	Copper (Cu)	7440-50-8		0.0071	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0014	mg
Clip	16.2	mg	Supplier	Iron (Fe)	7439-89-6		0.0162	mg
			Supplier	Copper (Cu)	7440-50-8		16.1789	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0049	mg
Die	5.1	mg	Supplier	Silicon (Si)	7440-21-3		5.1	mg
Die and Clip Attach	5.4	mg	Supplier	Silver (Ag)	7440-22-4		0.135	mg
			A	Lead (Pb)	7439-92-1	7a	4.995	mg
			Supplier	Tin (Sn)	7440-31-5		0.27	mg
Die Attach Tape	0.1	mg		Epoxy resin	proprietary data		0.04	mg
			Supplier	Acrylic resins	Proprietary Data		0.06	mg
Lead Frame	28.0	mg	Supplier	Silver (Ag)	7440-22-4		0.966	mg
			Supplier	Zinc (Zn)	7440-66-6		0.0336	mg
			Supplier	Iron (Fe)	7439-89-6		0.658	mg
			Supplier	Copper (Cu)	7440-50-8		26.334	mg
			Supplier	Phosphorus (P)	7723-14-0		0.0084	mg
Mold Compound-Black	46.4	mg		Epoxy resin	proprietary data		2.32	mg
			Supplier	Phenolic Resin	Proprietary Data		0.464	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		6.496	mg
			Supplier	Carbon Black (C)	1333-86-4		0.232	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		36.888	mg
Plating	3.1	mg	Supplier	Tin (Sn)	7440-31-5		3.1	mg
Wire Bond - Au	0.9	mg	Supplier	Gold (Au)	7440-57-5		0.9	mg