



**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 <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**

<b>Company name*</b> On Semiconductor	Company unique ID	Unique ID Authority	<b>Response Date*</b> 2020-02-27
<b>Contact Name</b> Product-Env-Stewards	Title - Contact Product Enviro Compliance	<b>Phone - Contact*</b> NA	<b>Email - Contact*</b> Product-Env-Stewards@onsemi.com
<b>Authorized Representative*</b> Product-Env-Stewards	Title - Representative Product Enviro Compliance	<b>Phone - Representative*</b> NA	<b>Email - Representative*</b> Product-Env-Stewards@onsemi.com

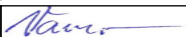
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
	MT9V034C12STC-DP-E	0.38MP 1/3" SENSOR ONLY	2020-02-27		PHT	776.08	mg	Each

**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
Precious metal (e.g. Ag,Au, NiPdAu) (no Sn)	CU Alloy	4	260 C	30 seconds	3

Comments

For more information regarding material composition 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), 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 *	5 - Item(s) is obsolete, no information is available		Supplier Acceptance * Accepted
<b>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.</b>			
Exemption List Version	EL-2011/534/EU		
<b>Declaration Signature</b>			
<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	Jozef Vavro		

**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
Ceramic Substrate	542.28	mg	Supplier	Cobalt (Co)	7440-48-4		0.705	mg
			Supplier	Titanium Dioxide (TiO2)	13463-67-7		5.4228	mg
			Supplier	Molybdenum (Mo)	7439-98-7		5.4228	mg
			Supplier	Tungsten (W)	7440-33-7		22.83	mg
			Supplier	Magnesium Monoxide (MgO)	1309-48-4		3.2537	mg
			Supplier	Calcium Oxide (CaO)	60873-85-0		2.7656	mg
			Supplier	Silica Amorphous (SiO2)	7631-86-9		15.1838	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		462.2937	mg
			B	Nickel (Ni)	7440-02-0		2.2233	mg
			Supplier	Gold (Au)	7440-57-5		1.3557	mg
			Supplier	Chromium Trioxide (Cr2O3)	1308-38-9		20.8236	mg
Die	49.22	mg	Supplier	Misc.	n/a		0.187	mg
			Supplier	Silicon (Si)	7440-21-3		48.5457	mg
			Supplier	Aluminum (Al)	7429-90-5		0.4873	mg
Die Attach	25.14	mg	Supplier	Bisphenol A_Epichlorohydrin polymer	25068-38-6		1.0835	mg
			Supplier	Epoxy resins	129915-35-1		7.7607	mg
			Supplier	Fused Silica (SiO2)	60676-86-0		9.1535	mg
			Supplier	Acrylic resins	n/a		7.1423	mg
Imaging Lens	151.66	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		7.9622	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		7.7347	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		7.9622	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		7.7802	mg
			B	Antimony Trioxide (Sb2O3)	1309-64-4		0.7583	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		7.6588	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		7.674	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		104.1298	mg
Lid Attach	5.79	mg	Supplier	Other Additive Agents	n/a		1.0086	mg
			Supplier	Photoinitiator	n/a		0.2362	mg
			Supplier	Epoxy Prepolymer	n/a		4.5452	mg
Marking Ink	0.05	mg	Supplier	Bisphenol A_Epichlorohydrin polymer	25068-38-6		0.042	mg
			Supplier	1-Methoxy-2-propyl acetate (MPA)	108-65-6		0.0024	mg
			Supplier	Butylglycol Acetate	112-07-2		0.0024	mg

			Supplier	Cyclohexanone	108-94-1		0.0025	mg
			Supplier	Xylene	1330-20-7		0.0007	mg
Wire Bond - Au	1.94	mg	Supplier	Gold (Au)	7440-57-5		1.94	mg