



Material Composition Declaration
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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 http://www.ipc.org/IPC-175x	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information
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Supplier Information

Company name* On Semiconductor	Company unique ID	Unique ID Authority	Response Date* 2019-08-29
Contact Name Product-Env-Stewards	Title - Contact Product Enviro Compliance	Phone - Contact* NA	Email - Contact* Product-Env-Stewards@onsemi.com
Authorized Representative* Product-Env-Stewards	Title - Representative Product Enviro Compliance	Phone - Representative* NA	Email - Representative* Product-Env-Stewards@onsemi.com

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
	MT9V011P11STC-B-DP	VGA 1/4 CIS	2019-08-29		TA1	543.04	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	3	240 C	30 seconds	3

Comments
ATTENTION: MSL 3 Rated item requires Bake and Dry Pack (after electrical test)
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 *	1 - Item(s) does not contain RoHS restricted substances per the definition above		Supplier Acceptance * 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-2006/690/EC		
Declaration Signature			
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.			
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
Die	78.4	mg	Supplier	Misc.	n/a		0.2979	mg
			Supplier	Silicon (Si)	7440-21-3		77.3259	mg
			Supplier	Aluminum (Al)	7429-90-5		0.7762	mg
Die Attach	5.2	mg	Supplier	Silver (Ag)	7440-22-4		3.64	mg
			Supplier	Epoxy resins	129915-35-1		1.04	mg
			Supplier	Acrylic resins	n/a		0.13	mg
			Supplier	Gamma-Butyrolactone	96-48-0		0.39	mg
Imaging Lens	162.7	mg	Supplier	Titanium Dioxide (TiO2)	13463-67-7		8.135	mg
			Supplier	Sodium Monoxide (Na2O)	1313-59-3		8.135	mg
			Supplier	Boron Trioxide (B2O3)	1303-86-2		8.135	mg
			Supplier	Zinc Monoxide (ZnO)	1314-13-2		8.135	mg
			B	Antimony Trioxide (Sb2O3)	1309-64-4		0.8135	mg
			Supplier	Aluminum Trioxide (Al2O3)	1344-28-1		8.135	mg
			Supplier	Potassium Monoxide (K2O)	12136-45-7		8.135	mg
			Supplier	Silica Crystalline (SiO2)	14808-60-7		113.0765	mg
Lid Attach	7.2	mg	Supplier	Other Additive Agents	n/a		1.08	mg
			Supplier	Photoinitiator	n/a		2.448	mg
			Supplier	Epoxy Prepolymer	n/a		3.672	mg
Marking Ink	4.2	mg	Supplier	Bisphenol A_Epichlorohydrin polymer	25068-38-6		0.525	mg
			Supplier	1-Methoxy-2-propyl acetate (MPA)	108-65-6		1.05	mg
			Supplier	Butylglycol Acetate	112-07-2		1.05	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5		0.525	mg
			Supplier	Cyclohexanone	108-94-1		0.525	mg
			Supplier	Xylene	1330-20-7		0.525	mg
Mold Compound-Black	54.0	mg	Supplier	Phenolic Resin	n/a		8.1	mg
			Supplier	Oxirane	39817-09-09		8.1	mg
			Supplier	1,4-Butanediol Diglycidyl Ether (DGE)	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	231.0	mg	Supplier	Fiber Glass (SiO2)	65997-17-3		48.9489	mg

			Supplier	Inorganic Filler of Solder Mask_Talc (Mg ₃ Si ₄ O ₁₀ (OH) ₂)	14807-96-6		3.0261	mg
			Supplier	Silica Amorphous (SiO ₂)	7631-86-9		0.7392	mg
			Supplier	Acetophenone Derivative	n/a		4.5276	mg
			Supplier	Carbon Black (C)	1333-86-4		0.7623	mg
			Supplier	2,4-Diethyl-9H-thioxanthen-9-one (DETX)	82799-44-8		0.7623	mg
			Supplier	Solvent Naphtha (Solvent oil)	64742-94-5		9.0552	mg
			Supplier	Organic Resin (Bismaleimide + Triazine + Epoxy resin)	13676-54-5, 1156- 51-0, 29690-82-2, 25068-38-6		30.2148	mg
			Supplier	Copper (Cu)	7440-50-8		109.5402	mg
			Supplier	Barium Sulfate (BaSO ₄)	7727-43-7		23.4234	mg
Wire Bond - Au	0.34	mg	Supplier	Gold (Au)	7440-57-5		0.34	mg