



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.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-2 1.1	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 Informat
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Supplier Information

Company Name * STMicroelectronics	Company Unique ID	Unique ID Authority	Response Date * N/A	Response Document ID				
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *	<input type="button" value="Duplicate Contact -> Authorized Representative"/>				
Authorized Representative * GIUSEPPE VITALI PALMA	Title - Representative APM MD CHAMPION	Phone - Representative * N/A	Email - Representative * N/A	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
	ESDAULC6-1U2	8SAD*V1U6EA1	2011-09-28	A	Z6HA	0.124	mg	Each
Alternate Recommendation	PACKAGE: DFN.06.03.03-035-2			Alternate Item Comments	ECOPACK2/ROHS; BSA: CD00305244			

Manufacturing Process Information

Terminal Plating / Grid Array Material Nickel/Palladium/Gold (Ni/Pd/Au)	Terminal Base Alloy CU Alloy	J-STD-020 MSL Rating 1	Peak Process Body Temperature 260 C	Max Time at Peak Temperature 30 seconds	Number of Reflow Cycles 3
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Comments

Disclaimer: While STMicroelectronics has endeavored to provide information which is accurate and up to date, this document and its contents are provided on a strict 'as is' and

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RoHS Material Composition Declaration

Declaration Type *

Simplified

RoHS Directive 2002/95/EC **RoHS Definition:** Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

Supplier certifies that it gathered the information it provides in this form concerning RoHS restrictive substances 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.

RoHS Declaration * 1 - Item(s) does not contain RoHS restricted substances per the definition above

Supplier Acceptance * Accepted

Exemptions: 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.

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

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).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem Name		Homogeneous Material	Weight	Unit of Measure		Level	Substance Category		Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
															-	+	
+I	-I	8SAD*V1U6EA1	+M -M Silicon Die	0.00789	mg	+C -C	Supplier	Silicon die	+S -S	Si	7440-21-3		0.00789	mg			1,000,0
			+M -M Lead Frame	0.05611	mg	+C -C	Supplier	Alloy	+S -S	Copper	7440-50-8		0.05298	mg			946,55
									+S -S	Silicon	7440-21-3		0.00029	mg			5,183
									+S -S	magnesium	7439-95-4		0.000076	mg			1,358
									+S -S	Palladium	7440-05-3		0.000056	mg			1,001
									+S -S	Gold	7440-57-5		0.000008	mg			150
						+C -C	Supplier	Nickel (external appli	+S -S	Nickel	7440-02-0		0.00256	mg			45,755
			+M -M Die Attach	0.004	mg	+C -C	supplier	Glue	+S -S	silver	7440-22-4		0.00255	mg			700,54
									+S -S	Rubber glocol manoethy	Proprietary		0.00026	mg			71,429
									+S -S	Bismaleimide resin (5~1	Proprietary		0.00029	mg			79,670
									+S -S	Caronic ester (1~5%)	Proprietary		0.00011	mg			30,220
									+S -S	Acrylate Oligomer (1~5%	Proprietary		0.00011	mg			30,220
									+S -S	Epoxy resin(1-5%)	Proprietary		0.00011	mg			30,220
									+S -S	Epoxy resin(1-5%)	Proprietary		0.00011	mg			30,220
									+S -S	Aromatic amine (1-5%)	Proprietary		0.0001	mg			27,473
			+M -M Bonding wire	0.001	mg	+C -C	supplier	Bonding wire	+S -S	Au	7440-57-5		0.0012	mg			1,000,0
			+M -M Encapsulation	0.055	mg	+C -C	supplier	Molding compound	+S -S	Silica Fused (80~90%)	60676-86-0		0.047	mg			849,91
									+S -S	Epoxy Resin (5~10%)	Proprietary		0.00415	mg			75,045
									+S -S	Phenol Resin (0.1~5%)	Proprietary		0.00138	mg			24,955
									+S -S	metal hydroxide (0.1-10%	Proprietary		0.0026	mg			47,016
									+S -S	Carbon Black (0.1~0.5%	1333-86-4		0.00017	mg			3,074