



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 * NA	Response Document ID				
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *	Duplicate Contact -> Authorized Representative				
Authorized Representative * GIOVANNI GIACOPELLO	Title - Representative APM MD CHAMPION	Phone - Representative * NA	Email - Representative * NA	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
	A3G4250D	22AA*AU10BCA	2012-01-17	A	MA1A	38	mg	Each
Alternate Recommendation	LLGA 4x4x1.1 16L Pitch 0.65 Pa			Alternate Item Comments	ECOPACK2/ROHS BSA REF: CD00327020			

Manufacturing Process Information

Terminal Plating / Grid Array Material Nickel/Gold (Ni/Au) - electrolytic	Terminal Base Alloy CU Alloy	J-STD-020 MSL Rating 3	Peak Process Body Temperature 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 * 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions

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.

Exemption List Version EL-2006/690/EC

+ - 5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.

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

		+S	-S	Gold (Au)		7440-57-5		0.012		mg				2,100							
+M	-M	Die Attach		0.285	mg	+C	-C	Supplier	Tape			+S	-S	Acrylic resin	Proprietary	0.09	mg			315,78	
													+S	-S	epoxy resin	Proprietary	0.181	mg			635,08
													+S	-S	Diphenol Propane Digly	1675-54-3	0.014	mg			49,123
+M	-M	Bonding wire		0.163	mg	+C	-C	Supplier	Bonding wire			+S	-S	Gold (Au)	7440-57-5	0.163	mg			1,000,0	
+M	-M	Encapsulation		18.893	mg	+C	-C	Supplier	Moulding Compound			+S	-S	Silica, vitreous	60676-86-0	16.531	mg			874,98	
													+S	-S	Epoxy Resin	85954-11-6	0.756	mg			40,015
													+S	-S	Epoxy resin	Proprietary	0.756	mg			40,015
													+S	-S	Phenol Resin	26834-02-6	0.756	mg			40,015
													+S	-S	Carbon black	1333-86-4	0.094	mg			4,975