



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 *					
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
	L6474H	A5Y9*UI49AAV	2011-12-13	A	ZY1A	105.3	mg	Each
Alternate Recommendation	PACKAGE: HTSSOP28 BODY4			Alternate Item Comments	ECOPACK2/ROHS; BSA: CD00314477			

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
Matte Tin (Sn) - annealed	CU Alloy	3	260 C	30 seconds	3

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						
											-	+							
A5Y9*UI49AAV	Silicon Die	6.658	mg	Supplier	Die	Silicon (Si)	7440-21-3		6.594	mg			990,38						
						Supplier	Die metallization	Aluminium (Al)	7429-90-5		0.001	mg		150					
								Chromium (Cr)	7440-47-3		0.001	mg		150					
								Gold (Au)	7440-57-5		0.001	mg		150					
								Nickel (Ni)	7440-02-0		0.004	mg		601					
								Supplier	Die coating	Gamma-butyrolactone	96-48-0		0.038	mg		5,708			
						Polyhydroxyamide	55295-98-2				0.017	mg		2,553					
						Alcoxysilane	Proprietary				0.001	mg		150					
						Leadframe	44.975	mg	Supplier	Alloy	Copper (Cu)	7440-50-8		43.019	mg			956,50	
Iron (Fe)	7439-89-6		1.06	mg							23,569								
Zinc (Zn)	7440-66-6		0.059	mg							1,312								
Phosphorous (P)	12185-10-3		0.018	mg							400								
Supplier	Frame coating	Silver (Ag)	7440-22-4		0.819						mg		18,210						
Die Attach	1.315	mg	supplier	Glue	Epoxy resin A	Proprietary		0.091	mg			69,202							
					Epoxy Resin B	Proprietary		0.053	mg		40,304								
					Silver (Ag)	7440-22-4		1.012	mg		769,58								
					Lactone	96-48-5		0.053	mg		40,304								
					Polyoxypropylenediamine	9046-10-0		0.053	mg		40,304								
					2,6 Diglycidyl phenyl allyl	Proprietary		0.053	mg		40,304								
Bonding wire	0.694	mg	supplier	Bonding Wire	Gold (Au)	7440-57-5		0.694	mg		1,000,0								
Encapsulation	49.216	mg	supplier	Molding Compound	Multi-aromatic resin	Proprietary		4.426	mg			89,930							
					Silica, vitreous	60676-86-0		41.347	mg		840,11								

Carbon Black		1333-86-4		0.246	mg			4,998					
Phenol Resin		Proprietary		3.197	mg			64,959					
Finishing	2.442	mg	supplier	Connection Coat			Tin (Sn)	7440-31-5	2.442	mg			1,000,0