



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 * ST MICROELECTRONICS	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 AMS & IPD 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
	STTH602CBY-TR	AZDP*J46F1BF	2012-06-27	A	SH1A	320	mg	Each
Alternate Recommendation	PACKAGE: TO 252 DPAK			Alternate Item Comments	ECOPACK1/ROHS; BSA: CD00270474			

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	1	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"

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Lock Supplier Fields

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

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7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).

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		+M	-M			+C	-C		+S	-S					-	+	
		AZDP*J46F1BF			2.323	mg			Supplier	Silicon die	Silicon	7440-21-3		2.225	mg			957,81
									Supplier	die metallization	Aluminium(Al)	7429-90-5		0.06	mg			25,830
									Supplier	die front side coating	Gamma-butyrolactone	96-48-0		0.013	mg			5,596
											Polyhydroxyamide	55295-98-2		0.006	mg			2,583
									Supplier	die back side metalliz	Titanium (Ti)	7440-32-6		0.001	mg			430
											Nickel (Ni)	7440-02-0		0.015	mg			6,457
											(Gold (Au))	7440-57-5		0.003	mg			1,291
					169.073	mg			supplier	alloy	Copper (Cu)	7440-50-8		168.853	mg			998,69
											Iron (Fe)	7439-89-6		0.169	mg			1,000
											Iron Phosphide (FeP)	26508-33-8		0.051	mg			301
					0.892	mg			supplier	coating	Nickel (Ni)	7440-02-0		0.884	mg			991,03
											Phosphorus (P)	12185-10-3		0.008	mg			8,969
					1.327	mg			JIG R	Lead/Lead Compound	Lead (Pb)	7439-92-1	7a. Lead	1.267	mg			954,78
									supplier	soft solder	Silver (Ag)	7440-22-4		0.033	mg			24,868
											Tin (Sn)	7440-31-5		0.027	mg			20,347
					0.692	mg			Supplier	Bonding wire	Aluminium (Al)	7429-90-5		0.692	mg			1,000,0
					144.2	mg			supplier	Moulding Compound	Silica, vitreous	60676-86-0		115.36	mg			800,00
											Epoxy Cresol Novolak	29690-82-2		10.094	mg			70,000
											Phenol resin	9003-35-4		5.768	mg			40,000
											Biphenyl epoxy resin	85954-11-6		8.652	mg			60,000
									supplier	Antimony/Antimony C	Antimony Trioxide	1309-64-4		1.73	mg			11,997
									JIG I	Brominated Flame Ret	Brominated Epoxy Resin	40039-93-8		2.163	mg			15,000
									supplier	Moulding Compound	Carbon Black	1333-86-4		0.433	mg			3,003

+M	-M	Finishing	1.493	mg	+C	-C	supplier	connection coating	+S	-S	Tin (Sn)	7440-31-5		1.493	mg			1,000,0
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