



# Material Composition Declaration

© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.

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 <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
------------	--	---------------------------	--

## Supplier Information

Company Name * <b>ST MICROELECTRONICS</b>	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 -&gt; Authorized Representative"/>				
Authorized Representative * <b>GIUSEPPE VITALI PALMA</b>	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
	LM2904AYDT	FDO7*0158BI6	2011-02-28	A	BO2A	76.9	mg	Each
Alternate Recommendation	PACKAGE: SO 08 .15 JEDEC			Alternate Item Comments	ECOPACK1/ROHS; BSA: CD00057114			

## Manufacturing Process Information

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

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"**

Save the fields in this form to a file

Export Data

Import fields from a file into this form

Import Data

Clear all of the fields on this form

Reset Form

Lock the fields on this form to prevent changes

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 \*** 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		+M	-M			+C	-C		+S	-S					-	+		
		FDO7*0158BI6			0.706	mg			Supplier	Silicon die		Silicon	7440-21-3		0.705	mg			998,58
									Supplier	die metallization		Aluminium(Al)	7429-90-5		0.001	mg			1,416
					29.36	mg			Supplier	alloy		Copper (Cu)	7440-50-8		29.321	mg			998,67
												Iron (Fe)	7439-89-6		0.014	mg			477
												Iron Phosphide (FeP)	26508-33-8		0.025	mg			851
					0.234	mg			Supplier	coating		Nickel (Ni)	7440-02-0		0.214	mg	0		914,53
												Palladium (Pd)	7440-05-3		0.014	mg			59,829
												Gold (Au)	7440-57-5		0.006	mg			25,641
					0.196	mg			Supplier	glue		Silver (Ag)	7440-22-4		0.147	mg			750,00
												Epoxy Cresol Novolak	29690-82-2		0.048	mg			244,89
												1-isopropyl-2,2-dimethy	6846-50-0		0.001	mg			5,102
					0.107	mg			Supplier	Bonding wire		Gold (Au)	7440-57-5		0.107	mg			1,000,0
					46.297	mg			Supplier	Moulding Compound		Epoxy Cresol Novolak	29690-82-2		4.63	mg			100,00
												phenol resin	9003-35-4		2.315	mg			50,003
												Carbon Black	1333-86-4		0.463	mg			10,001
												Silica, vitreous	60676-86-0		37.037	mg			799,98
												Antimony/Antimony C			0.926	mg			20,001
									JIG I	Brominated Flame Ret		Brominated epoxy resin	68928-70-1		0.926	mg			20,001