ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level	parts, the	declaratio	on encom	passes all		terials for	which	ne item is an assembly the manufacturer has declaration.	
1752-2 1.1		Web Site for Informat	ard		m Type * ribute						Is and Mfg Informat				
Supplier Information															
Company Name * STMicroelectronics		Company Unique ID		Unique ID Authority		Response Date * N/A			F	Response Document ID					
Contact Name *		Title - Contact		Phone - Contact *		Email	Email - Contact *								
Authorized Representative GIUSEPPE VITALI PALMA		Title - Representative		Phone - Representative * N/A		Email - Representative * N/A			* 5	Supplier Co	mments or UR	L for Add	litional	Information	
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version	Manufac	turing Site	Weight *	UC	M	Unit Type	
		RH		DO 15		2011-	-01-25 A ZA41		ZA41		400	mg	J	Each	
Alternate Recommend	ation	ation					Alternate Item C			Comments Package typical material declaration					
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Terminal B			ase Alloy	e Alloy J-STD-020 MSL R		g Peak Process Body Tempe		Tempera	iture Max Time at Peak Temp		nperature	erature Number of Reflow Cycl			
			CU Alloy		Not Applicable				С	s		econds			
Comments Disclaimer: While STMic	roele	ectronics has endea	vored to p	orovide infori	mation which is a	accurat	e and up	to date,	this do	cument and	d its contents	are pro	vided o	on a strict 'as is' and	

Save the fields in this form to a fileExport DataImport fields from a file into this formImport Data	Locked										
RoHS Material Composition Declaration Declaration Type *	Simplified										
RoHS Directive 2002/95/ECRoHS 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 I 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 Direct 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 such information. However, in situations where Supplier has not independently verified such information is the certification in this paragraph. If the Company 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 Su remedies for issues that arise regarding information the Supplier provides in this form.	tive. Company acknowledges that d information provided by others, y and the Supplier enter into a										
RoHS Declaration * 3 - Item(s) does not contain RoHS restricted substances per the definition above except for lead in solders and selected exemptions, if any Supplier Acceptance * Acce	epted										
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											
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 sig the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.	gnature area. Digitally sign										

Supplier Digital Signature	

Homogeneous Material Composition Declaration for Electronic Products

Subltem 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	Homogeneous	Weight	Unit of	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of	Tolerance		РРМ
Name	Material	weight	Measure	Level	Substance Category	Substance				Measure	-	+	
DO 15	Silicon Die	0.96	mg	Supplier	Silicon Die	silicon	7440-21-3		0.96	mg			1,000,0
	Leadframe	286.994	mg	Supplier	Alloy	Cu	7440-50-8		286.859	mg		9	999,53
						Zn	7440-66-6		0.011	mg			38
						Fe	7439-89-6		0.028	mg			98
						Р	12517-41-8		0.096	mg			334
	Die Attach	4.8	mg	supplier	glue	Ag	7440-22-4		0.24	mg			50,000
						Sn	7440-31-5		0.12	mg			25,000
				A	Lead/Lead Compound	Lead	7439-92-1		4.44	mg			925,00
	Encapsulation	103.246	mg	supplier	Moulding Compound	Silica	14808-60-7		72.872	mg			705,80
						Carbon Black	1333-86-4		0.506	mg			4,901
						Polymer with 1-chloro-2	29690-82-2		15.187	mg			147,09
						Phenol-formaldehyde po	9003-35-4		10.125	mg			98,067
				в	Brominated Flame Ret	TBBA-epichlorhydrin oli	40039-93-8		2.278	mg			22,064
				в	Antimony/Antimony C	Antimony trioxide	1309-64-4		2.278	mg			22,064
	Finishing	4	mg	supplier	connection coating	 Sn	7440-31-5		4	mg			1,000,0
	L	I							I				