ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	a. All rights reserv	tion with lowe	r level p	parts, the	declaratio	n encom	passes all lo		terials for	which th	e item is an assembly ne manufacturer has leclaration.	
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						
Supplier Information															
Company Name * STMicroelectronics	Company Unique ID		Unique ID A	-		Response Date * NA			Response Document ID						
Contact Name *		Title - Contact		Phone - Contact *		Email	Email - Contact *								
Authorized Representative		* Title - Representative APM MD CHAMPION		Phone - Representative * NA		Email - Representative * NA			* 5	Supplier Comments or URL for Additional Information					
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version	Manufa	cturing Site	Weight *	UO	M	Unit Type	
	S		SR			2010-	07-22	А	ZA41		68	mg	J	Each	
Alternate Recommend	ernate Recommendation							Alternate Item Comments Package typical material declaration					on		
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Terminal B			ase Alloy	by J-STD-020 MSL Rating			Peak Process Body Tempe			ature Max Time at Peak Temperature			Number of Reflow Cycles		
Matte Tin (Sn) - annealed CU Alloy			/	1	260 C			30 ser		econds	conds 3				
Comments Disclaimer: While STMic	croele	ectronics has endea	vored to p	provide infor	mation which is	accurat	e and up	to date,	this do	cument and	its contents	are prov	vided or	n 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, Polybromin 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	Example	Weight	Unit of	Tolerance	PPM
	Name		Material	weight	Measure	Levei	Substance Category	Substance	CAS	Exempt	weight	Measure	- +	
!	SMA		Integrated circui	it1.293	mg	Supplier	Silicon die	Silicon (Si)	7440-21-3		1.278	mg		988,39
						Supplier	Die metallization	Aluminium(Al)	7429-90-5		0.001	mg		773
								Titanium (Ti)	7440-32-6		0.003	mg		2,320
								Nickel (Ni)	7440-02-0		0.002	mg		1,547
								(Gold (Au)	7440-57-5		0.009	mg		6,961
			Leadframe and (26.6	mg	Supplier	Frame alloy	Copper (Cu)	7440-50-8		26.587	mg		999,51
								Zinc (Zn)	7440-66-6		0.001	mg		38
								Iron (Fe)	7439-89-6		0.003	mg		113
								Phosphorus (P)	12517-41-8		0.009	mg		338
			Die Attach	2.551	mg	A	Lead/Lead Compound	Lead (Pb)	7439-92-1	7a. Lead	2.359	mg		924,73
						Supplier	Soft solder	Tin (Sn)	7440-31-5		0.128	mg		50,176
								Silver (Ag)	7440-22-4		0.064	mg		25,088
			Encapsulation	36.916	mg	Supplier	Moulding Compound	Amorphous Silica	7631-86-9		22.747	mg		616,18
								Quartz	14808-60-7		7.383	mg		199,99
								epoxy resin	29690-82-2		4.43	mg		120,00
								phenolic resin	9003-35-4		2.215	mg		60,001
						Supplier	Bismuth/Bismuth Co	Bismuth trioxide	1304-76-3		0.026	mg		704
								chlorine residue	7782-50-5		0.004	mg		108
								Carbon black	1333-86-4		0.111	mg		3,007
			Finishing	0.64	mg	Supplier	connection coating	Tin (Sn)	7440-31-5		0.64	mg		1,000,0