	© Cop	terial Compo pyright 2005. IPC, Bannock ternational and Pan-Americ	kburn, Illinois	All rights reserved u	n with lower	level p	oarts, the	declaratio	on enco	mpasses	all lower	r level mat	erials for	which t	e item is an assembly he manufacturer has declaration.
1/32-2 1.1		Veb Site for Informati //www.ipc.org/IPC-1		, , , , , , , , , , , , , , , , , , ,				eclaration Class * ass 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat							
Supplier Information															
Company Name * STMicroelectronics		Company Unique ID		Unique ID Autho	prity	Respo N/A	onse Date	9 *		Respons	se Docu	ment ID			
Contact Name * Title - Contact			Phone - Contact *			Email - Contact *				Duplicate Contact -> Authorized Representative					
Authorized Representativ		Title - Representative		Phone - Repres N/A	entative *	Email N/A	- Repres	entative	*	Supplier	Comme	ents or UR	L for Add	ditional I	nformation
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version	Manufa	facturing Site		Weight *	UC	M	Unit Type
		LM324APT		HD6R*0324AD6		2009-08-27		A	BO2A	BO2A		53.5	mg	3	Each
Alternate Recommendation TSSOP 14 BODY 4.4 PITCH 0.			6		Alternate Item C			omments	ECOP	ACK2/ROH	IS;ST In	ternal re	eference BSA:CD002		
Manufacturing Proces	s Inf	ormation													
Terminal Plating / Grid Array N	/lateria	al	Terminal Ba	ase Alloy J-S	STD-020 MSL Ra	ating	Peak Proc	ess Body	Tempe	rature Ma	ax Time a	at Peak Tem	perature	Number	of Reflow Cycles
Nickel/Palladium/Gold (Ni/Pd/Au) CU Alloy			<u> </u>			225 (;	30 seconds			3		
Comments Disclaimer: While STMicr	oele	ctronics has endeav	ored to p	rovide informat	ion which is a	ccurat	e and up	to date,	this do	ocument	and its	contents	are pro	vided o	n a strict 'as is' and

Save the fields in this form to a file	port 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 Compo	sition Declaration	n				Declaration Type *	Simplified
	-	it of 0.1% by mass (100 rs (PBDE) and quantity				alent Chromium, Polybromin admium	ated Biphenyls (PBB),
date that Supplier completes this form Supplier may have relied on informat Supplier agrees that, at a minimum, i	m. Supplier acknowledges t tion provided by others in co its suppliers have provided o e identified part, the terms an	hat Company will rely on this cer mpleting this form, and that Supp certifications regarding their contr d conditions of that agreement, in	tification in determining the co olier may not have independe ibutions to the part, and those	ompliance of its products with ntly verified such information e certifications are at least as	European Union member state However, in situations where S comprehensive as the certificat	n is true and correct to the best of its k laws that implement the RoHS Directi Supplier has not independently verified ion in this paragraph. If the Company te sole and exclusive source of the Sup	ve. Company acknowledges that information provided by others, and the Supplier enter into a
RoHS Declaration * 1 - Ite	em(s) does not contain Rol	HS restricted substances per th	ne definition above			Supplier Acceptance * Acce	pted
Exemptions: If the declared above and choose all applicable		RoHS restricted substance	es per the definition abo	ove except for defined	RoHS exemptions, then s	elect the corresponding respon	se in the RoHS Declaration
Declaration Signature)						
Instructions: Complete a the declaration (if required						wn. This will display the sig	nature 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	Exemp	Weight	Unit of	Tolerance		PPM
	Name		Material	weight	Measure		Levei	Substance Category	y		Substance	CAS	Exempt	weight	Measure	-	+	FEM
+I -I	HD6R*0324AD6	+M -M	Silicon Die	1.722	mg	+C -C	Supplier	Silicon die	+S	-S	Silicon	7440-21-3		1.721	mg		9	999,41
						+C -C	Supplier	die metallization	+S	-S	Aluminium(Al)	7429-90-5		0.001	mg		4	581
		+M -M	Leadframe	23.176	mg	+C -C	supplier	alloy	+S	-s	Copper (Cu)	7440-50-8		23.146	mg			998,70
									+S	-s	Iron (Fe)	7439-89-6		0.023	mg			992
									+S	-s	Iron Phosphide (FeP)	26508-33-8		0.007	mg			302
		+M -M	Leadframe coati	in0.021	mg	+C -C	supplier	coating	+S	-S	Nickel (Ni)	7440-02-0		0.001	mg			47,619
									+S	-S	Palladium (Pd)	7440-05-3		0.014	mg			666,66
									+S	-s	Gold (Au)	7440-57-5		0.006	mg			285,71
		+M -M	Die Attach	0.341	mg	+C -C	supplier	glue	+S	-S	Silver (Ag)	7440-22-4		0.273	mg			800,58
									+S	-S	2,6-Diglycidylphenyl ally	13561-08-5		0.051	mg			149,56
									+S	-s	1,4-bis (2,3-epoxypropo	2425-79-8		0.007	mg			20,528
									+S	-s	Polyoxypropylenediami	9 046-10-0		0.01	mg			29,326
		+M -M	Bonding wire	0.159	mg	+C -C	Supplier	Bonding wire	+S	-S	Gold (Au)	7440-57-5		0.159	mg			1,000,0
		+M -M	Encapsulation	28.081	mg	+C -C	supplier	Moulding Compound	+S	-S	Silica, vitreous	60676-86-0		24.15	mg			860,01
									+S	-s	epoxy resin	proprietary		2.246	mg			79,983
									+S	-s	Phenol resin A	proprietary		0.562	mg			20,014
									+S	-s	Phenol resin B	proprietary		0.983	mg			35,006
									+S	-s	Carbon black	1333-86-4		0.14	mg			4,986