ASSESSATION SOMMESTING	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lowe	r level p	parts, the	declaratio	n encompa	sses a	II lower	level mate	rials for	which t	e item is an assembly he manufacturer has declaration.		
1/32-2 .		Web Site for Informat		-1752 Standa	ard		m Type * ribute			eclaration Class * ass 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa							
Supplier Information																	
Company Name * ST MICROELECTRONIC	s	Company Unique ID		Unique ID A	uthority	Respo	onse Dat	e *	Res	ponse	e Docur	ment ID					
Contact Name * Title ·		Title - Contact		Phone - Contact *			Email - Contact *				Duplicate Contact -> Authorized Representative						
Authorized Representative * Title - Representative GIUSEPPE VITALI PALMA 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		Effectiv	ve Date	Version	Manufactur	acturing Site		Weight *	UC	M	Unit Type		
	STPS2045CGY-TR			ASD2*F55SA2Y		2011-	06-20	Α	SH1A			1,440	mg]	Each		
Alternate Recommenda	ation PACKAGE:D2PAK					Alternate Item C			omments ECOPACK1/ROHS; BSA: CD00265019								
Manufacturing Proces	s In	formation															
Terminal Plating / Grid Array Material Termina			Terminal B	ase Alloy	Rating	ting Peak Process Body Ten			erature Max Time at Peak Tem		erature	of Reflow Cycles					
Matte Tin (Sn) - annealed CU Allo Comments			CU Alloy	<u>'</u>		245			30 second			conds	3				
DISCLAIMER: While STN	licro	electronics has end	eavored to	o provide inf	ormation which	is accu	rate and	up to da	te, this do	umer	nt and i	its conten	ts are p	rovided	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 change	Lock Supplier Fields
RoHS Material Com	position Declaration	า				Declaration Type *	Simplified
2002/95/EC Polybro	ominated Diphenyl Ether	rs (PBDE) and quantity	limit of 0.01% by ma	ss (100 PPM) of hom	ogeneous material for C		·
ate that Supplier completes this supplier may have relied on info supplier agrees that, at a minim written agreement with respect t	s form. Supplier acknowledges the rmation provided by others in colum, its suppliers have provided c	nat Company will rely on this ce mpleting this form, and that Sup ertifications regarding their con d conditions of that agreement,	rtification in determining the oplier may not have independent tributions to the part, and tho	compliance of its products wit ently verified such information se certifications are at least as	h European Union member state n. However, in situations where S s comprehensive as the certificat	Supplier has not independently veri ion in this paragraph. If the Compa	ective. Company acknowledges that fied information provided by others,
RoHS Declaration * 4	- Item(s) does not contain Rol-	HS restricted substances per t	the definition above except	for selected exemptions		Supplier Acceptance * Ac	cepted
xemptions: If the decla bove and choose all appl		RoHS restricted substance	ces per the definition al	pove except for defined	RoHS exemptions, then s	elect the corresponding resp	ponse in the RoHS Declaration
Exemption List Version	EL-2006/690/EC						
7a. Lead in high melt	ing temperature type solders (i	.e. lead based solder alloys c	ontaining 85% by weight or	more lead).			
-							
Declaration Signat	ure						
	e all of the required field ed by the Requester) are					wn. This will display the s	signature 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	Tolera	ance	PPM
	Name		Material	weight	Measure		Level				Substance	CAS	Exempt	weight	Measure	-	+	PFIVI
+1 -1	ASD2*F55SA2Y	+M -M	Silicon Die	6.877	mg	+C -C	Supplier	Silicon die	+S	-S	Silicon	7440-21-3		6.775	mg			985,16
						+C -C	Supplier	die metallization	+S	-s	Aluminium(Al)	7429-90-5		0.043	mg		ı	6,253
									+S	-S	Titanium (Ti)	7440-32-6		0.003	mg			436
									+S	-S	Nickel (Ni)	7440-02-0		0.046	mg			6,689
									+S	-S	(Gold (Au)	7440-57-5		0.01	mg			1,454
		+M -M	Leadframe	804.409	mg	+C -C	supplier	alloy	+S	-S	Copper (Cu)	7440-50-8		803.363	mg			998,70
									+S	-S	Iron (Fe)	7439-89-6		0.37	mg			460
									+S	-S	Iron Phosphide (FeP)	26508-33-8		0.676	mg			840
		+M -M	Leadframe coati	12.373	mg	+C -C	supplier	coating	+S	-S	Nickel (Ni)	7440-02-0		2.185	mg			920,77
									+S	-S	Phosphorus (P)	12185-10-3		0.188	mg			79,225
		+M -M	Die Attach	5.577	mg	+C -C	JIG R	Lead/Lead Compound	+S	ှ	Lead (Pb)	7439-92-1	7a. Lead	5.326	mg			954,99
						+C -C	supplier	Glue	+S	-S	Silver (Ag)	7440-22-4		0.139	mg			24,924
									+S	-S	Tin (Sn)	7440-31-5		0.112	mg			20,082
		+M -M	Bonding wire	4.378	mg	+C -C	Supplier	Bonding wire	+S	-S	Aluminium (Al)	7429-90-5		4.378	mg			1,000,0
		+M -M	Encapsulation	612.83	mg	+C -C	supplier	Moulding Compound	+S	-S	Silica, vitreous	60676-86-0		490.265	mg			800,00
									+S	-S	Epoxy Cresol Novolak	29690-82-2		42.898	mg			70,000
									+S	-S	Phenol resin	9003-35-4		24.513	mg			40,000
									+S	-S	Biphenyl epoxy resin	85954-11-6		36.77	mg			60,000
						+C -C	supplier	Antimony/Antimony C	+S	-S	Antimony Trioxide	1309-64-4		7.354	mg			12,000
						+C -C	JIG I	Brominated Flame Ref	+S	-S	Brominated Epoxy Resi	40039-93-8		9.192	mg			14,999
						+C -C	supplier	Moulding Compound	+S	-S	Carbon black	1333-86-4		1.838	mg			2,999
		+M -M	Finishing	3.556	mg	+C -C	supplier	connection coating	+S	-S	Tin (Sn)	7440-31-5		3.556	mg			1,000,0