ASSESSMENT SOUNTSOURCE	© Co	terial Compo pyright 2005. IPC, Bannoci ternational and Pan-Americ	kburn, Illinois	. All rights reserve	tion with lower	level p	arts, the	declaration	on encom		ver level mat	erials for	which t	e item is an assembly he manufacturer has declaration.		
1/32-2 1.1		Web Site for Informat //www.ipc.org/IPC-1		-1752 Standa	rd	Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information							
Supplier Information																
Company Name *	ıthority	Response Date *				Response Document ID										
ST MICROELECTRONICS																
Contact Name *		Title - Contact		Phone - Contact *		Email	Email - Contact *			Duplicate Contact -> Authorized Representative						
Authorized Representative * Title - Representative)	Phone - Rep	resentative *	Email	nail - Representative *		* 8	Supplier Comments or URL for Additional Information						
GIUSEPPE VITALI PALMA APM MD CHAMPION			N	N/A												
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version	Manufac	turing Site	Weight *	UC	DM	Unit Type		
		STL150N3LLH5		BSER*5L3TB	2012-0)2-09	Α	SH1A		76	mg	3	Each			
Alternate Recommendat	ation PACKAGE: QFN POWER FLA			-		Alternate Item C			omments ECOPACK2/ROHS; BSA: CD00321632							
Manufacturing Process	s Inf	formation								•						
Terminal Plating / Grid Array Material Terminal B			Terminal B	ase Alloy	ting Peak Process Boo			s Body Temperature		Max Time at Peak Tempera		ire Number of Reflow Cycles				
` '			CU Alloy	,		260				30 seconds 3						
Comments DISCLAIMER: While STM	icro	electronics has end	eavored to	o provide info	ormation which i	s accu	rate and	up to da	te, this c	locument an	d its conter	nts 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	Evemnt	Weight	Unit of	Tolerance		PPM
	Name		Material	weigin	Measure		Level	Substance Category			Substance	CAS	Exempt	weight	Measure	-	+	FFIN
+1 -1	BSER*5L3TB52	+M -M	Silicon Die	2.258	mg	+C -0	Supplier	Silicon die	+S	Ş	Silicon	7440-21-3		2.12	mg			938,88
		_				+C -(Supplier	Die metallization	+S	-S	Aluminium(Al)	7429-90-5		0.113	mg			50,044
							_		+S	-s	Titanium (Ti)	7440-32-6		0.001	mg			443
									+S	-s	Nickel (Ni)	7440-02-0		0.02	mg			8,857
									+S	-s	(Gold (Au)	7440-57-5		0.004	mg			1,771
		+M -M	Leadframe	42.19	mg	+C -0	Supplier	Alloy	+S	Ş	Copper (Cu)	7440-50-8		41.108	mg			974,35
									+S	-s	Iron (Fe)	7439-89-6		0.967	mg			22,920
									+S	-s	Zinc (Zn)	7440-66-6		0.051	mg			1,209
									+S	-S	Iron Phosphide (Fe2P)	1310-43-6		0.058	mg			1,375
						+C -(Supplier	Coating	+S	-S	Silver (Ag)	7440-22-4		0.006	mg			142
		+M -M	Die Attach	2.347	mg	+C -(JIG R	Lead/Lead Compound	+S	-S	Lead (Pb)	7439-92-1	7a. Lead	2.241	mg			954,83
						+C -(Supplier	Soft solder	+S	-S	Silver (Ag)	7440-22-4		0.059	mg			25,138
									+S	-s	Tin (Sn)	7440-31-5		0.047	mg			20,026
		+M -M	Clip	7.805	mg	+C -0	Supplier	Clip	+S	Ş	Copper (Cu)	7440-50-8		7.805	mg			1,000,0
		+M -M	Encapsulation	21.187	mg	+C -0	Supplier	Moulding Compound	+S	Ş	Silica, vitreous	60676-86-0		19.619	mg			925,99
									+S	-s	epoxy resin	85954-11-6		0.847	mg			39,977
									+S	-s	phenol resin	26834-02-6		0.636	mg			30,018
									+S	-s	carbon black	1333-86-4		0.085	mg			4,012
		+M -M	Finishing	0.213	mg	+C -0	Supplier	Connection coating	+S	-S	Tin (Sn)	7440-31-5		0.213	mg			1,000,0