ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc international and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	r level p	arts, the	declaratio	n encoi	mpasses all low		ls for whic	f the item is an assembly h the manufacturer has is declaration.		
1752-2 1.1	_	Web Site for Informat		-1752 Standa	rd		Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous						ials and Mfg Informat		
Supplier Information															
Company Name *		Unique ID Authority			Response Date *			Response Document ID							
SEMTECH CORP. (CPMGR01						2012-0	01-07								
Contact Name *	Title - Contact		Phone - Contact *			- Contac	t *		5 " .	2	A .1 .				
ROYA READER Quality Customer Service				ec <b>805-389-2742</b>			Rreader@semtech.com			Duplicate	e Contact -> /	Authorized	Representative		
Authorized Representative * Title - Representative			9	Phone - Representative *			Email - Representative *			Supplier Comments or URL for Additional Information					
ROYA READER Quality Customer Service			ervice Spec	eq <b>805-389-2742</b>			Rreader@semtech.com								
Requester Item Number		Mfr Item Number		Mfr Item Name	)	Effectiv	ive Date   Version		Manufacturing Site		Weight *	UOM	Unit Type		
SX8651ICSTRT		SX8651ICSTRT									0.00354741	mg	Each		
Alternate Recommenda	Alternate Recommendation							Alternate	Item Co	Comments					
Manufacturing Proces	ss In	formation													
Terminal Plating / Grid Array Material Terminal				ase Alloy	ating	ating Peak Process Body Ter			perature   Max Time at Peak Temperature   1			Number of Reflow Cycles			
Tin/Silver/Copper (Sn/Ag/Cu) Oth			Other		1		3		3 <b>75</b> C	;	3.6 secon				
Comments  Terminal Base Alloy:TiW	V/Cu,	Cu/Ni								'		,			

Save the fields in this form to a file    Export Data	Lock the fields on this form to prevent changes  Lock Supplier Fields											
RoHS Material Composition Declaration Declaration Declaration Declaration Declaration Declaration Declaration												
RoHS Directive 2002/95/EC ROHS 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												
Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledge and belief, as of the 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 Directive. Company acknowledges that 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 information provided by others, Supplier agrees that, at a minimum, its suppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this paragraph. If the Company and the Supplier enter into a 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 Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier p												
RoHS Declaration * 3 - Item(s) does not contain RoHS restricted substances per the definition above except for lead in solders and selected exemptions, if an	y Supplier Acceptance * Accepted											
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												
+ -												
Declaration Signature												
	drop down. This will display the signeture area. Disitally size											
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 signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.												

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	el	Substance Category			Substance	CAS	Exempt	Weight	Unit of	Tolerance		PPM
	Name			Material	Weight	Measure			C1					OAO .	Lxciiipt	Weight	Measure	-	+	
+1 -1	Solder Bump	+M	-M	Die	0.00195	mg	+C -0	Supp	lier	Die	+S	-S	Si			0.001950	mg			549,75
		+M	-M	HD4100	0.00002	<b>I</b> mg	+C -C	Supp	lier	PI	+S	-s	Methanol	67-56-1		0.000000	mg	1	5	205
											+S	-S	N-Methyl-2-Prollidone			0.000009	mg	30	60	2,805
											+S	-S	MethacrylateMonomer			0.000001	lmg	5	10	479
											+S	-S	PhotosensitivePolyimid			0.000010	mg	30	60	2,873
											+S	-\$	ProprietaryIngredient(s			0.000001	lmg	5	10	479
		+M	-M	TiW Target	0.00000	mg	+C -0	Supp	lier	Seed metal(RDL)	+S	-S	Ті	7440-32-6		0.000000	mg		10	27
											+S	-S	w	7440-33-7		0.000000	lmg	90		242
		+M	-M	Cu Solution	0.00002	mg	+C -0	Supp	lier	RDL	+S	-S	Cu	7440-50-8		0.000027	mg		100	7,740
		+M	-M	TiW Target	0.00000	mg	+C -0	Supp	lier	Seed metal(UBM)	+S	-s	Ti	7440-32-6		0.000000	mg		10	27
											+S	-S	w	7440-33-7		0.000000	lmg	90		242
		+M	-M	Cu Solution	0.00002	mg	+C -0	Supp	lier	UBM	+S	-s	Cu	7440-50-8		0.000027	mg		100	7,740
		+M	-M	Ni Solution	0.00001	mg	+C -0	В		Nickel (external applic	+S	-S	Nickel	7440-02-0		0.000010	mg		100	3,058
		+M	-M	SAC266	0.00124	mg	+C -0	Supp	lier	Solder Ball	+S	-S	Sn	7440-31-5		0.001206	mg		96.8	340,09
											+S	-S	Ag	7440-22-4		0.000032	mg		2.6	9,135
											+S	-S	Cu	7440-50-8		0.000007	mg		0.6	2,108
		+M	-М	LC2850	0.00025	mg	+C -(	Supp	lier	BSP	+S	-S	Silica			0.000144	mg	32	79	40,655
											+S	-S	Epoxy resin			0.000055	mg	10	32	15,545
											+S	-S	Acrylic resin			0.000055	mg	10	32	15,545
											+S	-S	Carbon black	1333-86-4		0.000004	lmg		3	1,196