ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoch ternational and Pan-Americ	kburn, Illinois	. All rights reserv	tion with lower	level	parts, the	declaration	n encoi	mpasses all	lower level mat	erials for which	if the item is an assembly the manufacturer has his declaration.		
1752-2 1.1	Web Site for Informat	1752 Standard						Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa							
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	Response Date *				Response D	Document ID					
SEMTECH CORPORATI	ON	SEMTECH CORPOR	RATION		2012-10-09										
Contact Name *		Title - Contact		Phone - Con	Email - Contact *				Duralia	cata Camtant	. A	d Danuacantativa			
Roya Reader		QA Customer Service	e Specialis	805-389-274	rreader@semtech.com				Duplio	cate Contact	-> Authorize	d Representative			
Authorized Representative *		Title - Representative	9	Phone - Rep	Email - Representative *			*	Supplier Comments or URL for Additional Information						
Roya Reader		QA Customer Servic	e Specialis	805-389-274	2	rread	er@semte	ech.com							
Requester Item Number	er	Mfr Item Number		Mfr Item Name	Effective Date		Version	Manufa	acturing Site	Weight *	UOM	Unit Type			
SC186ULTRT		SC186ULTRT		4A Synchrono			Malay		sia	16.11	mg	Each			
Alternate Recommend	Alternate Recommendation					Alternate Item			Item Co	omments					
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Terminal B			ase Alloy	ting	Peak Proc	ess Body	Tempe	ature Max T	ime at Peak Tem	nperature Num	ber of Reflow Cycles				
Nickel/Palladium/Gold (Ni/Pd/Au)			CU Alloy		1			<b>260</b> C		;	<b>30</b> seco				
Comments							•								

Save the fields in Import fields from a Clear all of the Lock the fields on this **Export Data** Import Data Reset Form Lock Supplier Fields this form to a file file into this form fields on this form form to prevent changes **RoHS Material Composition Declaration Declaration Type \*** Detailed Rohs Directive Rohs Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenvls (PBB). Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium 2002/95/EC 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 provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply. 1 - Item(s) does not contain RoHS restricted substances per the definition above Supplier Acceptance \* Accepted **RoHS Declaration \*** 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. **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 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 Measure		Love	Lovol	Substance Category			Substance	CAS	Evempt	Weight	OTHE OF	Tolerance		PPM
	Name		Material	weight			<u></u>	Level	Substance Category			Substance	CAS	≥xempt	weight	Measure	-	+	FFIVI
+1	Lead frame	+M -M	C7025	5.98	mg	+C -	C s	Supplier		+S	-S	Cu	7440-50-8		5.66	mg		3	351,33
			•							+S	-s	Si	7440-21-3		0.03	mg		1	1,930.2
						+C -	СВ	3	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.2051	mg		7	12,732
						+C -	C s	Supplier		+S	-S	Mg	7439-95-4		0.008	mg		2	482.55
		+M -M	Ni/Pd/Au platring	90.08	mg	+C -	СВ	3		+S	-S	Nickel	7440-02-0		0.07	mg		-	4,268.7
			•			+C -	C s	Supplier	middle plating	+S	-S	Pd	7440-05-3		0.01	mg		5	371.19
						+C -	C s	Supplier	outer plating	+S	-S	Au	7440-57-5		0.001	mg		Ę	55.679
+1	Die	+M -M	Doped silicon	0.54	mg	+C -	C s	Supplier		+S	-S	Si	7440-21-3		0.54	mg		3	33,519
+1 -	Die attach material	+M -M	QMI519	0.27	mg	+C -	C s	Supplier		+S	-S	Ag	7440-22-4		0.19	mg		1	11,899
	-		•			,,				+S	-s	Carbocycllic Acrylate	Proprietary		0.054	mg		;	3,351.9
										+S	-s	Bismaleimide resin	Proprietary		0.008	mg			502.79
										+S	-s	Acrylate	Proprietary		0.008	mg			502.79
										+S	-s	Additive	Proprietary		0.008	mg		;	502.79
+1	Wire	+M -M	Gold	0.42	mg	+C -	C s	Supplier		+S	-S	Au	7440-57-5		0.42	mg		2	26,068
			•		•					+S	-s	Others			0.00004	mg		-	2.6070
+1	Lead Finish	+M -M	Tin alloy	0.57	mg	+C -	C s	Supplier		+S	-S	Sn	7440-31-5		0.57	mg		3	35,378
			•		•					+S	-s	Others			0.00006	mg		;	3.5381
+1	Encapsulation	+M -M	EME-G770HCD	8.33	mg	+C -	cs	Supplier		+S	-S	Silica Fused	60676-86-0		7.81	mg		4	484,49
	•		-	•	•					+S	-s	Epoxy Resin	Proprietary		0.25	mg		7	15,512
										+S	-s	Phenol Resin	Proprietary		0.25	mg		7	15,512
										+S	-s	Carbon Black	1333-86-4		0.02	mg			1,551.2