ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	r level pa	arts, the	declaration	n encomp	asses all lo		erials for	which th	e item is an assembly ne manufacturer has eclaration.	
1752-2 1.1	_	Web Site for Informat	ırd	Form Type * Distribute			Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa								
Supplier Information															
Company Name *	Company Unique ID		Unique ID Au	Response Date *			R	Response Document ID							
SEMTECH CORPORATION	NC					2012-0	1-10								
Contact Name *	Title - Contact		Phone - Cor	Email -	Contac	t *			_						
ROYA READER			(805) 389-27	rreade	rreader@semtech.com			Duplicat	te Contact	-> Autho	rized Re	presentative			
Authorized Representat	Title - Representative	tle - Representative		Phone - Representative *		Email - Representative *			Supplier Comments or URL for Additional Information						
ROYA READER				(805) 389-27	42	rreade	r@semte	ech.com							
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective	Effective Date Version			uring Site	Weight *	UC	OM	Unit Type		
		SMDA12C.TBT		300 Watt BiD	a			Philippin	es	75.875	mg	3	Each		
Alternate Recommend	ıdation				Alternate			Item Con	em Comments						
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Terminal			Terminal B	ase Alloy	ating Peak Process Bod			Temperat	ure Max Tim	e at Peak Tem	perature	ature Number of Reflow Cyc			
Matte Tin (Sn)			CU Alloy	,	1		260 (30 s		econds 3			
Comments					,										
SMDA12C.TBT is REAC	H-con	npliant product, per	EU Regul	lation EC190	7/2006 to include	recent	addition	of SVH	C candid	ate list of s	ubstances i	n Octob	er 2011.		

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

Ite	Item/SubItem		Homogeneous	Wajaht	Unit of		1.	aval	Substance Category			Cultotonos	CAS	Evenue	Weight	Unit of	Tolerance		PPM
	Name		Material	Weight	Measure			Level	Substance Category			Substance	CAS	Exempt	vveignt	Measure	-	+	
+1 -1	DIE	+M -M	Silicon Die	2.75	mg	+C -(CSI	upplier		+S	-S	Silicon (Si)	7440-21-3		2.75	mg			36,243
+1 -1	Lead Frame - SOIC	+M -M	CDA194	39.45	mg	+C -(CSI	upplier		+S	-S	Copper (Cu)	7440-50-8		38.4638	mg			506,93
	-		-							+S	-s	Iron (Fe)	7439-89-6		0.92708	mg			12,218
										+S	-s	Phosphorous (P)	7723-14-0		0.011835	mg			155.98
										+S	-s	Zinc (Zn)	7440-66-6		0.04734	mg			623.92
+1 -1	Die Attach Epoxy	+M -M	84-1LMISR4	0.18	mg	+C -(CSı	upplier		+S	-S	Epoxy Resin	Proprietary		0.01	mg			115.32
	-		-							+S	-s	Silver	7440-22-4		0.1488	mg			1,960.4
										+S	-s	Aromatic Amine	Proprietary		0.018	mg			230.64
+1 -1	Bonding Wire	+M -M	Gold Wire	0.1	mg	+C -0	Csı	upplier		+S	-S	Gold (Au)	7440-57-5		0.0999	mg			1,317.8
+1 -1	Encapsulation	+M -M	EME-G600	30	mg	+C -0	C Sı	upplier		+S	-S	Fused Silica	60676-86-0		26.25	mg			345,96
	,		•	•		·				+S	-s	Epoxy cresol Novalac	29690-82-2		0.6	mg			7,907.7
										+S	-s	Epoxy Resin	Proprietary		1.5	mg			19,769
										+S	-s	Carbon Black	1333-86-4		0.15	mg			1,976.9
										+S	-s	Phenol Resin	9003-35-4		1.5	mg			19,769
+1 -1	Lead Finish	+M -M	Tin Alloy	3.4	mg	+C -(CSI	upplier		+S	-S	Tin (Sn)	7440-31-5		3.4	mg			44,810