ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo opyright 2005. IPC, Bannoc onternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lowe	r level p	arts, the	declaratio	n encom	passes all lo		terials for	which th	e item is an assembly ne manufacturer has eclaration.		
1752-2 1.1 IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x						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 *			F	Response Document ID							
SEMTECH CORPORATION	ON	SEMTECH CORPOR	RATION			2013-0	)3-22									
Contact Name *		Title - Contact		Phone - Cor	Email	- Contac	t *		D 1:		A (1					
Roya Reader		QA Customer Service	e Specialis	805-389-274	rreade	rreader@semtech.com			Duplica	ite Contact	-> Autho	rizea Ke	presentative			
Authorized Representat	ive *	Title - Representative	е	Phone - Rep	Email	Email - Representative *			Supplier Con	nments or UR	L for Add	ditional Ir	formation			
Roya Reader		QA Customer Service	e Specialis	805-389-274	2	rreade	er@semte	ech.com								
Requester Item Number		Mfr Item Number		Mfr Item Name	9	Effectiv	e Date	Version Manuf		cturing Site	Weight *	UC	OM	Unit Type		
RClamp0506T.TCT				6-Line ESD F	Protection			China			2.07	mg	 g	Each		
Alternate Recommend	Alternate Recommendation				Alterna			Item Co	Item Comments							
Manufacturing Proce	ss In	formation														
Terminal Plating / Grid Array	Mater	ial	Terminal B	ase Alloy	J-STD-020 MSL R	ating	Peak Proc	ess Body	Tempera	ture Max Tin	ne at Peak Ten	nperature	Number	of Reflow Cycles		
Nickel/Palladium/Gold (Ni/Pd/Au) CU			CU Alloy	,	1				<b>260</b> C		<b>30</b> se		3			
Comments			•		•											
RClamp0506T.TCT is RE	EACH	-compliant product,	per EU R	egulation EC	1907/2006 to inc	lude re	cent addi	tion of S	SVHC ca	ındidate list	of substance	es in De	cember	2012.		

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			Level	Substance Category			Substance	CAS	Evennt	Weight	Unit of	Tolerance		PPM
		Name			Material	weight	Measure			Level	Substance Category			Substance	CAS	Exempt	weight	Measure	-	+	FFIVI
+I	-1	Die	+M	-М	Doped Silicon	0.0288	mg	+C	-C	Supplier		+S	-S	Si	7440-21-3		0.0288	mg			13,912
+1	-1	Leadframe	+M	-М	C7025	0.85995	mg	+C	-C	Supplier		+S	-S	Cu	7440-50-8		0.8247	mg			398,36
	Ţ,				•							+S	-s	Si	7440-21-3		0.0062	mg			3,012
								+C	-C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.0275	mg			13,293
								+C	-C	Supplier		+S	-S	Mg	7439-95-4		0.0015	mg			727
			+M	-M	Ni/Pd/Au plating	0.02205	mg	+C	-C	В		+S	-S	Nickel	7440-02-0		0.0199	mg			9,604
								+C	-C	Supplier	middle plating	+S	-S	Pd	7440-05-3		0.0018	mg			873
								+C	-C	Supplier	outer plating	+S	-S	Au	7440-57-5		0.0004	mg			174
+1	-1	Bonding wire	+M	-M	Gold wire	0.0245	mg	+C	-C	Supplier		+S	-S	Au	7440-57-5		0.0245	mg			11,815
+1	-1	Molding compound	+M	-М	EME-G770HCD	1.11903	4mg	+C	-c	Supplier		+S	-S	Silica fused	60676-86-0		1.0463	mg			505,41
	·				•							+S	-s	Epoxy resin	Proprietary		0.0336	mg			16,216
												+S	-s	Phenol resin	Proprietary		0.0336	mg			16,216
												+S	-S	С	1333-86-4		0.0056	mg			2,703
+1	-1	Die attached epoxy	+M	-M	QMI519	0.01589	3mg	+C	-c	Supplier		+S	-S	Ag	7440-22-4		0.0127	mg			6,142
	·				•							+S	-s	palladium compound	Proprietary		0.00002	mg			12
												+S	-s	2,6-Di-tert-butyl-p-creso	128-37-0		0.000001	mg			0.4
												+S	-S	Hydroquinone	123-31-9		0.000000	mg			0.01
												+S	-S	Acrylate	Proprietary		0.0025	mg			1,216
												+S	-s	Bismaleimide resin	Proprietary		0.0005	mg			230
												+S	-s	Polymer of polybutadie	Proprietary		0.0002	mg			77