ADDODIATION CONNECTING	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaratio	n encom	ipasses all lo		terials for	r which th	e item is an assembly ne manufacturer has leclaration.
1752-2 1.1	•	Web Site for Informat		n Type * ribute	-		aration Class * s 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat							
Supplier Information														
Company Name *		Company Unique ID		Unique ID Au	Response Date *			F	Response Document ID					
SEMTECH CORPORATION		SEMTECH CORPOR	RATION		2013-04-05									
Contact Name *		Title - Contact		Phone - Contact *			- Contac	t *						
Roya Reader		QA Customer Servic	e Specialis	805-389-274	rreader@semtech.com				Duplica	ate Contact	-> Autho	orized Re	epresentative	
Authorized Representative		Title - Representative	Э	Phone - Rep	Email - Representative *			*	Supplier Comments or URL for Additional Information					
Roya Reader		QA Customer Service	e Specialis	805-389-274	rreader@semtech.com									
Requester Item Number		Mfr Item Number		Mfr Item Name	)	Effectiv	e Date	Version Manu		cturing Site	Weight *	U	OM	Unit Type
		TClamp3302N.TCT		Low Capacitance TVS for Ether			China			a 13.691		mg		Each
Alternate Recommenda	ation				Alternate			Item Cor	m Comments					
Manufacturing Proces	ss In	formation												
Terminal Plating / Grid Array Material			Terminal Base Alloy		J-STD-020 MSL Ra	ating	ing Peak Proc		Tempera	ture   Max Tir	ne at Peak Ter	Peak Temperature		of Reflow Cycles
Nickel/Palladium/Gold (	l/Au)	CU Alloy		1			(			5	seconds	3		
Comments  TClamp3302N.TCT is RE	EACH	l-compliant product	, per EU R	egulation EC	C1907/2006 to inc	lude re	ecent add	lition of	SVHC c	andidate lis	t of substan	ces in D	ecembe	r 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

	- 1	Item/SubItem			Homogeneous	Weight	Unit of			Level	Substance Category			Substance	CAS	Exempt	Weight	Oille Oi	Tolerance		PPM
		Name			Material	Weight	Measure			Level	Substance Category			Substance	UA3	Lxempt	weight	Measure	-	+	1 1 141
+1 -1	ı	Die	+M	-м	Doped Silicon	3.024	mg	+C	-C	Supplier		+S	-S	Si	7440-21-3		3.024	mg			220,87
+1 -	ı	Leadframe	+M	-М	C7025	5.58967	5mg	+C	-C	Supplier		+S	-S	Cu	7440-50-8		5.3605	mg			391,53
					-				_			+S	-s	Si	7440-21-3		0.0405	mg			2,960
								+C	-c	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.1789	mg			13,065
								+C	-C	Supplier		+S	-S	Mg	7439-95-4		0.0098	mg			714
			+M	-М	Ni/Pd/Au plating	0.14332	5mg	+C	-C	В		+S	-S	Nickel	7440-02-0		0.1292	mg			9,440
					-			+C	-C	Supplier	middle plating	+S	-S	Pd	7440-05-3		0.0118	mg			858
								+C	-C	Supplier	outer plating	+S	-S	Au	7440-57-5		0.0023	mg			171
+1 -	1	Bonding Wire	+M	-М	Gold	0.2363	mg	+C	-c	Supplier		+S	-S	Au	7440-57-5		0.2363	mg			17,262
+1 -	1	Molding compound	+M	-м	EME-G770HCD	3.97494	5mg	+C	-c	Supplier		+S	-S	Silica fused	60676-86-0		3.7166	mg			271,46
					•	•	•		•			+S	-s	Epoxy resin	Proprietary		0.1192	mg			8,710
												+S	-s	Phenol resin	Proprietary		0.1192	mg			8,710
												+S	-S	С	1333-86-4		0.0199	mg			1,452
+1 -	ı	Die attached Epoxy	+M	-М	QMI519	0.72269	/mg	+C	-c	Supplier		+S	-S	Ag	7440-22-4		0.5782	mg			42,229
					-				_			+S	-s	Palladium compound	Proprietary		0.0011	mg			79
												+S	-s	2,6-Di-tert-butyl-p-creso	128-37-0		0.00004	mg			3
												+S	-s	Hydroquinone	123-31-9		0.000001	mg			0.04
												+S	-s	Acrylate	Proprietary		0.1145	mg			8,364
												+S	-s	Bismaleimide resin	Proprietary		0.0217	mg			1,584
												+S	-S	Polymer of polybutadie	Proprietary		0.0072	mg			528