ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoc aternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaration	n encor		er level mate	erials for	which th	item is an assembly e manufacturer has eclaration.		
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x						n Type * ribute			tion Class * - RoHS Yes/No, Homogeneous Materials and Mfg Informat						
Supplier Information																
Company Name * Cor		Company Unique ID		Unique ID Au	Response Date *				Response Document ID							
SEMTECH CORPORATION		SEMTECH CORPOR	RATION		2012-05-09											
Contact Name *		Title - Contact		Phone - Contact *		Email - Contact *				5 "		• 11		1		
ROYA READER		Quality Assurance Customer Se805-3)5-389-2742		rreader@semtech.com			Duplicate	Contact	-> Autho	rized Re	presentative		
Authorized Representative *		Title - Representative	Э	Phone - Rep	Phone - Representative *		Email - Representative *			Supplier Comments or URL for Additional Information						
ROYA READER	Quality Assurance Customer S 805-389-2742					er@semte	ech.com									
Requester Item Number		Mfr Item Number		Mfr Item Name		Effective Date		Version Manufa		cturing Site	Weight *	UC	OM	Unit Type		
	uClamp1211P.TCT		uClamp 1-Lir		e ESD Protection		China		China		0.929	mg]	Each		
Alternate Recommenda	ation				Alternate Item Co			omments								
Manufacturing Proces	ss Inf	formation														
Terminal Plating / Grid Array Material		Terminal Base Alloy		J-STD-020 MSL Rating		Peak Process Body Tempe		Temper	rature Max Time at Peak Te		perature Number of Reflow Cy		of Reflow Cycles			
Nickel/Palladium/Gold (Ni/Pd/Au)		CU Alloy		1				260 C		30 se		3				
Comments uClamp1211P.TCT is RE	EACH	-compliant product	, per EU R	egulation EC	C1907/2006 to inc	lude re	cent add	ition of S	SVHC o	andidate list o	f substanc	es in Fe	ebruary 2	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		Unit of		Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
	Name		Material	Weight	Measure		Level	Substance Category			Substance	UA3				-	+	1 1 141
+1 -1	Die	+M -M	Doped Silicon	0.1223	mg	+C -(Supplier		+S	-S	Si	7440-21-3		0.1223	mg			131,66
+1 -1	Lead Frame	+M -M	C7025	0.35859	mg	+C -(Supplier		+\$	Ġ	Cu	7440-50-8		0.3439	mg			370,21
	_	•							+S	-s	Si	7440-21-3		0.0026	mg			2,799
						+C -(В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.0115	mg			12,353
						+C -(Supplier		+S	-S	Mg	7439-95-4		0.0006	mg			676
		+M -M	Ni/Pd/Au	0.00919	mg	+C -(В		+S	Ģ	Nickel	7440-02-0		0.0083	mg			8,926
						+C -(Supplier	middle plating	+S	-S	Pd	7440-05-3		0.0008	mg			812
						+C -(Supplier	outer plating	+S	-S	Au	7440-57-5		0.0001	mg			161
+1 -1	Bonding Wire	+M -M	Gold wire	0.0075	mg	+C -(Supplier		+S	-S	Au	7440-57-5		0.0075	mg			8,090
+1 -1	Molding compound	+M -M	EME-G770HCD	0.40206	mg	+C -(Supplier		+S	-S	Silica fused	60676-86-0		0.3759	mg			404,70
				•			_ ,		+S	-s	Epoxy resin	Proprietary		0.0121	mg			12,985
									+S	-s	Phenol resin	Proprietary		0.0121	mg			12,985
									+S	-S	Carbon Black	1333-86-4		0.002	mg			2,164
+1 -1	Die attached Epoxy	+M -M	QMI519	0.02922	mg	+C -(Supplier		+S	Ş-	Ag	7440-22-4		0.0234	mg			25,173
	_	•							+S	-s	palladium compound	Proprietary		0.000043	mg			47
									+S	-s	2,6-Di-tert-butyl-p-creso	128-37-0		0.000001	mg			2
									+S	-s	Hydroquinone	123-31-9		0.000000	mg			0.0220
									+S	-s	Acrylate	Proprietary		0.0046	mg			4,986
									+S	-s	Bismaleimide resin	Proprietary		0.0009	mg			944
									+S	-S	Polymer of polybutadie	Proprietary		0.0003	mg			315