ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoo nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	r level p	parts, the	declaratio	n enco		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							m Type * ribute	-	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 Docu								
SEMTECH CORPORATION	ON	00-847-9941		DUNS	2013-	06-05										
Contact Name *		Title - Contact		Phone - Cor	Email - Contact *					0 1 1	A (I					
Roya Reader		QA Customer Service	e Specialis	805-389-274	rread	rreader@semtech.com			Duplicate	Contact	-> Autno	rizea Re	presentative			
Authorized Representative		Title - Representative	Э	Phone - Representative *		Email - Representative *			*	Supplier Comm	ents or URI	L for Add	ditional In	formation		
Roya Reader		QA Customer Service	e Specialis	805-389-274	2	rread	er@semt	ech.com								
Requester Item Number		Mfr Item Number		Mfr Item Name)	Effectiv	ve Date	Version Manuf		acturing Site	ring Site Weight *		OM	Unit Type		
		RClamp1654P.TCT		Low Capacita	V Capacitance TVS Array				China		4.278	mg]	Each		
Alternate Recommend	Alternate Recommendation				Alternate It			Item Co	n Comments							
Manufacturing Proce	ss In	formation				•										
Terminal Plating / Grid Array Material			Terminal B	ase Alloy	J-STD-020 MSL R	ating	Peak Process Body Tempe		rature Max Time at Peak Tem		perature	perature Number of Reflow				
Nickel/Palladium/Gold (l/Au)	CU Alloy		1			260 C		30 s		econds	3				
Comments RClamp1654P.TCT is R	EACH	I-compliant product	, per EU R	egulation E0	C1907/2006 to inc	clude re	ecent add	lition of	SVHC	candidate list c	of substance	ces in D	ecember	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			Levei	Substance Category			Substance	CAS	Exempt	weignt	Measure	-	+	FFIVI
+I	-1	Die	+M	-м	Doped silicon	0.3224	mg	+C	-c	Supplier		+S	-S	Si	7440-21-3		0.3224	mg		,	75,348
+I	-1	Leadframe	+M	-М	C7025	1.49631	3mg	+C	-C	Supplier		+S	-S	Cu	7440-50-8		1.435	mg			335,40
					-				-			+S	-s	Si	7440-21-3		0.0108	mg			2,536
								+C	-C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.0479	mg			11,192
								+C	-C	Supplier		+S	-S	Mg	7439-95-4		0.0026	mg			612
			+M	-М	Ni/Pd/Au plating	0.03836	7mg	+C	-C	В		+S	-S	Nickel	7440-02-0		0.0346	mg			8,086
					-			+C	-C	Supplier	middle plating	+S	-S	Pd	7440-05-3		0.0031	mg			735
								+C	-C	Supplier	outer plating	+S	-S	Au	7440-57-5		0.0006	mg			146
+I	-1	Bonding wire	+M	-М	Au	0.047	mg	+C	-C	Supplier		+S	-S	Au	7440-57-5		0.047	mg			10,978
+I	-1	Molding compound	+M	-м	EME-G770HT	2.29131	6mg	+C	-C	Supplier		+S	-S	Silica fused	60676-86-0		2.1424	mg			500,75
	·				•	•						+S	-s	Epoxy resin	Proprietary		0.0687	mg			16,067
												+S	-s	Phenol resin	Proprietary		0.0687	mg			16,067
												+S	-S	Carbon Black	1333-86-4		0.0115	mg			2,678
+1	-1	Die attached epoxy	+M	-М	QMI519	0.08296	6mg	+C	-c	Supplier		+S	-S	Ag	7440-22-4		0.0664	mg			15,514
	Ţ,				•	•						+S	-s	palladium compound	Proprietary		0.0001	mg			29
												+S	-S	2,6-Di-tert-butyl-p-creso	128-37-0		0.000004	mg			1
												+S	-s	Hydroquinone	123-31-9		0.000000	mg			0.01
												+S	-S	Acrylate	Proprietary		0.0131	mg			3,073
												+S	-S	Bismaleimide resin	Proprietary		0.0025	mg			582
												+S	-s	Polymer of polybutadie	Proprietary		0.0008	mg			194