ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Cop	terial Compo pyright 2005. IPC, Bannoc ternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level pa	rts, the	declaration	n encon		er level mate	erials for	which th	eitem is an assembly e manufacturer has eclaration.		
1752-2 1.1	1.1 IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x						Type * bute			tion Class * - RoHS Yes/N	Class * HS Yes/No, Homogeneous Materials and Mfg Informat					
Supplier Information																
Company Name *		Company Unique ID		Unique ID Au	Response Date *				Response Document ID							
SEMTECH CORPORATION		SEMTECH CORPOR	RATION		2012-05-11											
Contact Name *		Title - Contact		Phone - Cor	Email - Contact *				D !' (		A (1					
ROYA READER		Quality Assurance C	ustomer S	805-389-2742		rreader@semtech.com				Duplicate	Contact	-> Autho	rizea Re	presentative		
Authorized Representative *		Title - Representative	)	Phone - Rep	Email - Representative *			*	Supplier Comments or URL for Additional Information							
ROYA READER		Quality Assurance C	ustomer S	<b>&amp;</b> 05-389-274	2	rreader	@semte	ech.com								
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective Date		Version Manufa		cturing Site	Weight *	UC	OM	Unit Type			
		RClamp0504N.TCT		RailClamp Lo	ilClamp Low-Capacitance TV		/		China		7.405	mg	3	Each		
Alternate Recommend	ation				Alternate Item Co			Item Co	mments	_			•			
Manufacturing Proces	ss Inf	formation				,										
Terminal Plating / Grid Array Material			Terminal B	ase Alloy	J-STD-020 MSL Ra	ating F	g Peak Process Body		Temper	ature   Max Time	re Max Time at Peak Tem		Number	of Reflow Cycles		
Nickel/Palladium/Gold (Ni/Pd/Au) Comments		/Au)	CU Alloy		1			<b>260</b> C		<b>30</b> se		econds 3				
RClamp0504N.TCT is R	EACH	I-compliant product	, per EU F	Regulation E0	C1907/2006 to inc	lude red	cent add	lition of	SVHC	candidate list	of substance	es in F	ebruary	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	L		Levei	Substance Category			Substance	CAS	Exempt	weight	Measure	-	+	FFIVI
+I	-1	Die	+M	-М	Doped Silicon	0.3498	mg	+C	-c	Supplier		+S	-S	Si	7440-21-3		0.3498	mg			47,245
+1	-	Lead frame	+M	-м	C7025	2.92383	mg	+C	-C	Supplier		+S	-S	Cu	7440-50-8		2.804	mg			378,66
					-				-			+S	-s	Si	7440-21-3		0.0212	mg			2,863
								+C	-C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.0936	mg			12,635
								+C	-C	Supplier		+S	-S	Mg	7439-95-4		0.0051	mg			691
			+M	-М	Ni/Pd/Au plating	0.07497	mg	+C	-C	В		+S	-S	Nickel	7440-02-0		0.0676	mg			9,129
					-			+C	-C	Supplier	middle plating	+S	-S	Pd	7440-05-3		0.0061	mg		,	830
								+C	-C	Supplier	outer plating	+S	-S	Au	7440-57-5		0.0012	mg			165
+1	-1	Bonding wire	+M	-М	Gold	0.143	mg	+C	-C	Supplier		+S	-S	Au	7440-57-5		0.143	mg			19,317
+1	-1	Molding compound	+M	-м	EME-G770HCD	3.74595	8mg	+C	-C	Supplier		+S	-S	Silica fused	60676-86-0		3.5025	mg		,	472,99
					•			,	•			+S	-S	Epoxy resin	Proprietary		0.1124	mg			15,176
												+S	-s	Phenol resin	Proprietary		0.1124	mg			15,176
												+S	-S	Carbon Black	1333-86-4		0.0187	mg			2,529
+1	-I	Die attached Epoxy	+M	-М	QMI519	0.16721	6mg	+C	-c	Supplier		+S	-S	Ag	7440-22-4		0.1338	mg			18,066
					•	•						+S	-s	palladium compound	Proprietary		0.0003	mg			34
												+S	-S	2,6-Di-tert-butyl-p-creso	128-37-0		0.000008	mg			1.1290
												+S	-s	Hydroquinone	123-31-9		0.000000	mg			0.0158
												+S	-S	Acrylate	Proprietary		0.0265	mg			3,578
												+S	-S	Bismaleimide resin	Proprietary		0.005	mg			677
												+S	-S	Polymer of polybutadie	Proprietary		0.0017	mg			226