ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoo nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaration	n encomp	asses all lov		erials for	which th	e item is an assembly ne manufacturer has leclaration.	
1752-2 1.1	-1752 Standa					Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa									
Supplier Information															
Company Name *	Company Unique ID		Unique ID Au	Response Date *			R	Response Document ID							
SEMTECH CORPORATION	NC	00-847-9941		DUNS	2017-0	2-14									
Contact Name *		Title - Contact		Phone - Cor	Email - Contact *				D II 4	- 0	A41				
Roya Motamedi		Supervisor, QA Prod	uct Suppo	805-498-211	rmotamedi@semtech.com			om	Duplicat	e Contact	-> Autno	orizea Ke	epresentative		
Authorized Representative *		Title - Representative	Э	Phone - Rep	Email - Representative *			* Sı	Supplier Comments or URL for Additional Information						
Roya Motamedi		Supervisor, QA Prod	luct Suppo	805-498-211	1	rmota	medi@se	emtech.c	om						
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective Date Ver		Version	Manufact	uring Site	Weight *	UC	OM	Unit Type		
		RClamp1644T.TNT						China		1.409	mç	9	Each		
Alternate Recommendation					Alternate Item (			Item Com	ments	<u> </u>					
Manufacturing Proce	ss In	formation													
Terminal Plating / Grid Array Material Termina			Terminal B	ase Alloy	J-STD-020 MSL R	ating	Peak Proc	ess Body	s Body Temperature		Max Time at Peak Temp		Number	of Reflow Cycles	
Nickel/Palladium/Gold (Ni/Pd/Au) CU Allo					1		260		<b>260</b> C		<b>30</b> s	econds	3		
Comments					•					•					
RClamp1644T.TNT is RE	ACH	-compliant product,	per EU R	egulation EC	1907/2006 to inc	lude re	cent addi	tion of S	VHC car	didate list	of substanc	es in Ja	nuary 20	)17.	

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	Exempt	Weight	Unit of Measure	Tolerance		PPM
	Name		Material	Weight	Measure			Levei	Substance Category			Substance	CAG	LXempt			-	+	1 1 141
+1 -1	Chip	+M -N	Silicon Die	0.0739	mg	+C -	-C s	Supplier		+S	-S	Silicon (Si)	7440-21-3		0.0739	mg			52,449
+1 -1	Lead Frame	+M -N	C7025	0.53488	9mg	+C -	-C s	Supplier		+S	Ģ	Copper (Cu)	7440-50-8		0.513	mg			363,96
							_			+S	-S	Silicon (Si)	7440-21-3		0.0039	mg			2,752
										+S	-s	Magnesium (Mg)	7439-95-4		0.0009	mg			664
						+C -	-C	3		+S	-S	Nickel	7440-02-0		0.0171	mg			12,145
+1 -1	Lead Finish	+M -N	Ni/Pd/Au plating	0.01371	5mg	+C -	-C E	3	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.0124	mg			8,775
						+C -	-C s	Supplier		+S	-S	Palladium (Pd)	7440-05-3		0.0011	mg			798
										+S	-s	Gold (Au)	7440-57-5		0.0002	mg			159
+1 -1	Bonding Wire	+M -N	Gold Wire	0.014	mg	+C -	-C s	Supplier		+S	-s	Gold (Au)	7440-57-5		0.014	mg			9,957
+1 -1	Molding Compoun	d+M -N	EME-G770H CD	0.73203	2mg	+C -	-C s	Supplier		+S	-S	Silica Fused	60676-86-0		0.6845	mg			485,63
	-		-		•					+S	-S	Epoxy Resin	Proprietary		0.022	mg			15,582
										+S	-S	Phenol Resin	Proprietary		0.022	mg			15,582
										+S	-S	Carbon Black	1333-86-4		0.0037	mg			2,597
+1 -1	Die Attached Epox	y+M -N	QMI519	0.04079	2mg	+C -	-C s	Supplier		+S	-S	Silver (Ag)	7440-22-4		0.0326	mg			23,155
							_			+S	-S	Palladium compound	Proprietary		0.0001	mg			43
										+S	-S	2,6-Di-tert-butyl-p-creso	128-37-0		0.000002	mg			1
										+S	-s	Hydroquinone	123-31-9		0.000000	mg			0
										+S	-s	Acrylate	Proprietary		0.0065	mg			4,586
										+S	-S	Bismaleimide resin	Proprietary		0.0012	mg			868
										+S	-S	Polymer of polybutadie	Proprietary		0.0004	mg			289