	© Co	terial Compo pyright 2005. IPC, Bannocl ternational and Pan-Americ	kburn, Illinois	All rights reserv	tion with lower	level	parts, the	declaration	encor		er level mate	erials for which	if the item is an assembly the manufacturer has nis declaration.			
1752-2 1.1	IPC Web Site for Information on IPC-1752 S http://www.ipc.org/IPC-175x					71				ration Class * 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa						
Supplier Information																
Company Name *		Company Unique ID		Unique ID Authority			Response Date *			Response Doc	ument ID					
SEMTECH CORPORATION		00-847-9941		DUNS			02-23									
Contact Name *		Title - Contact		Phone - Contact *			Email - Contact *			Domlingto	011	A 41	1 D			
Jeffrey Gabrielson		QA Customer Service	e Specialis	805-498-2111			jgabrielson@semtech.com			Duplicate	Contact -	-> Authorized	d Representative			
Authorized Representative *		Title - Representative	)	Phone - Representative *		Email - Representative *			k	Supplier Comments or URL for Additional Information						
Jeffrey Gabrielson		QA Customer Servic	e Specialis	805-498-211	1	jgabr	ielson@s	emtech.c	om							
Requester Item Number		Mfr Item Number		Mfr Item Name			Effective Date		Manufa	acturing Site	Weight *	UOM	Unit Type			
		SC644ULTRT		Charge Pump LED Driver for 5					Malaysia		18.4622	mg	Each			
Alternate Recommendation							Alternate Item C			omments						
Manufacturing Proces	s Inf	formation														
Terminal Plating / Grid Array Material Terminal Ba			ase Alloy J-STD-020 MSL Rat			ing Peak Process Body Tempe			rature Max Time at Peak Temperature Number of Reflow C							
Matte Tin (Sn)			CU Alloy	у 1			260				<b>30</b> se	econds 3				
Comments					I		1			I		I				

SC644ULTRT is REACH-compliant product, per EU Regulation EC1907/2006 to include recent addition of SVHC candidate list of substances in January 2017.

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 Material	Weight	Unit of Measure		Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		e PPM
	Name										Substance					-	+	
+1	Leadframe	+M -M	A194 (copper)	7.064	mg	+C -C	Supplier		+S	Ş	Cu	7440-50-8		6.826	mg			369,73
									+S	-s	Fe	7439-89-6		0.1645	mg			8,911.4
									+S	-s	Zn	7440-66-6		0.0084	mg			455.05
									+S	-s	Р	7723-14-0		0.0021	mg			113.76
									+S	-s	Ag	7440-22-4		0.063	mg			3,410.9
+1	Die attach material	+M -M	84-1LMISR4	0.2381	mg	+C -C	Supplier		+S	-S	Silver	7440-22-4		0.1786	mg			9,673.2
							-		+S	-s	Epoxy Resin	9003-36-5		0.0357	mg			1,934.6
									+S	-s	1,4-Bis (2,3-epoxypropo	2425-79-8		0.0119	mg			644.88
									+S	-s	Aromatic Amine	Proprietary		0.0119	mg			644.88
+1	Gold Wire	+M -M	Gold	0.2792	mg	+C -C	Supplier		+S	Ģ	Au	7440-57-5		0.2792	mg			15,123
+1	I Tin Plating	+M -M	Pure tin	0.4859	mg	+C -C	Supplier		+S	-S	Sn	7440-31-5		0.4859	mg			26,320
+1	-I Mold compound	+M -M	EME-G770HCD	6.7747	mg	+C -C	Supplier		+S	-S	Silica Fused	60676-86-0		6.2124	mg			336,49
							-		+S	-s	Epoxy resin	Proprietary		0.271	mg			14,677
									+S	-s	Phenol resin	Proprietary		0.271	mg			14,677
		_							+S	-s	Carbon Black	1333-86-4		0.0203	mg			1,100.8
+1	-l Die	+M -M	Silicon die	3.6202	mg	+C -C	Supplier		+S	-S	Si	7440-21-3		3.6202	mg			196,08