



Material Composition Declaration

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This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
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Supplier Information

Company Name * SEMTECH CORPORATION	Company Unique ID	Unique ID Authority	Response Date * 2012-10-17	Response Document ID				
Contact Name * ROYA READER	Title - Contact QA Customer Service Specialist	Phone - Contact * (805) 389-2742	Email - Contact * rreader@semtech.com	<input type="button" value="Duplicate Contact -> Authorized Representative"/>				
Authorized Representative * ROYA READER	Title - Representative QA Customer Service Specialist	Phone - Representative * (805) 389-2742	Email - Representative * rreader@semtech.com	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
	uClamp0511P.TCT	Low Profile uClamp 1-Line ESD			China	0.929	mg	Each
Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material Nickel/Palladium/Gold (Ni/Pd/Au)	Terminal Base Alloy CU Alloy	J-STD-020 MSL Rating 1	Peak Process Body Temperature 260 C	Max Time at Peak Temperature 30 seconds	Number of Reflow Cycles 3
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Comments

uClamp0511P.TCT is a REACH - compliant product per REACH Directives, EU Regulation EC1907/2006 to include those substances recently added in the SVHC Candidate List in

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RoHS Material Composition Declaration

Declaration Type *

Detailed

RoHS Directive 2002/95/EC | **RoHS Definition:** Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

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.

RoHS Declaration * | 1 - Item(s) does not contain RoHS restricted substances per the definition above

Supplier Acceptance * | Accepted

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

SubItem 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 Name		Homogeneous Material	Weight	Unit of Measure		Level	Substance Category		Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM	
															-	+		
+I	-I	SILICON CHIP	+M -M	Si, Doped	0.1223	mg	+C -C	Supplier		+S -S	Silicon (Si)	7440-21-3		0.1223	mg			131,66
+I	-I	LEAD FRAME	+M -M	C7025	0.3586	mg	+C -C	Supplier		+S -S	Copper (Cu)	7440-50-8		0.3439	mg			370,21
							+C -C	B		+S -S	Nickel	7440-02-0		0.0115	mg			12,353
							+C -C	Supplier		+S -S	Silicon (Si)	7440-21-3		0.0026	mg			2,799
										+S -S	Magnesium (Mg)	7439-95-4		0.0006	mg			676
			+M -M	Ni/Pd/Au plating	0.0092	mg	+C -C	B		+S -S	Nickel	7440-02-0		0.0083	mg			8,926
							+C -C	Supplier		+S -S	Palladium (Pd)	7440-05-3		0.0008	mg			812
										+S -S	Gold (Au)	7440-57-5		0.0001	mg			161
+I	-I	BONDING WIRE	+M -M	Gold Wire	0.0075	mg	+C -C	Supplier		+S -S	Gold (Au)	7440-57-5		0.0075	mg			8,090
+I	-I	MOLDING COMPOUND	+M -M	EME-G770H CD	0.4021	mg	+C -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
+I	-I	DIE ATTACHED EP	+M -M	QMI519	0.0292	mg	+C -C	Supplier		+S -S	Silver (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
										+S -S	Bismaleimide Resin	Proprietary		0.0009	mg			944
										+S -S	Acrylate	Proprietary		0.0046	mg			4,986
										+S -S	Polymer of Butadiene &	Proprietary		0.0003	mg			315