



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 00-847-9941	Unique ID Authority DUNS	Response Date * 2022-10-19	Response Document ID				
Contact Name * Debbie Mollner	Title - Contact Specialist, Document Control/C	Phone - Contact * 805-498-2111	Email - Contact * dmollner@semtech.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Debbie Mollner	Title - Representative Specialist, Document Control/C	Phone - Representative * 805-498-2111	Email - Representative * dmollner@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
	GS12070-IBE3	UHD-SDI Gearbox			Oita Operations	274.603	mg	Each
Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material Tin/Silver/Copper (Sn/Ag/Cu)	Terminal Base Alloy CU Alloy	J-STD-020 MSL Rating 3	Peak Process Body Temperature 260 C	Max Time at Peak Temperature 30 seconds	Number of Reflow Cycles 3
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Comments
GS12070-IBE3 is a REACH-compliant product, per EU Regulation EC1907/2006 to include the most recent additions to the SVHC candidate list of substances. ck dm

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Lock Supplier Fields

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	Substrate		+M	-M	106.7004	mg	+C	-C	Supplier			Copper	7440-50-8		41.5063	mg			15,150
											+S	-S	Glass, oxide, chemicals	65997-17-3		25.9281	mg			94,420
											+S	-S	1H-pyrrole-2,5-dione. 1.	105391-33-1		15.845	mg			57,701
											+S	-S	Metal Hydroxide	Trade Secre		15.845	mg			57,701
											+S	-S	Acrylic Resin	Trade Secre		3.7879	mg			13,794
											+S	-S	Epoxy Resin	Trace Secre		1.5151	mg			5,517
											+S	-S	Sulfuric acid, barium su	7727-43-7		1.1364	mg			4,138
											+S	-S	Acrylic ester monomer	Trade Secre		0.7576	mg			2,759
											+S	-S	Talc	14807-96-6		0.0758	mg			276
											+S	-S	Photo polymerization in	Trtrade Secr		0.0758	mg			276
											+S	-S	Silica	60676-86-0		0.0758	mg			276
											+S	-S	Phthalocyanine blue	Trade Secre		0.0758	mg			276
											+S	-S	Organic pigment	Trade Secre		0.0758	mg			276
+I	-I	Purchased Parts		+M	-M	87.2	mg	+C	-C	Supplier			Silicon	7440-21-3		86.6496	mg			315,54
											+S	-S	Auminum	7429-90-5		0.2614	mg			952
											+S	-S	Copper	7440-50-8		0.2331	mg			849
											+S	-S	Tantalum	7440-25-7		0.0559	mg			204
+I	-I	Underfill Resin		+M	-M	6.28	mg	+C	-C	Supplier			Silicon Dioxide	7631-86-0		3.768	mg			13,722
											+S	-S	Epoxy Resin	Trade Secre		1.884	mg			6,861
											+S	-S	Hardener	Trade Secre		0.628	mg			2,287
+I	-I	Bump		+M	-M	1.9226	mg	+C	-C	Supplier			Tin	7440-31-5		1.3292	mg			4,841
								+C	-C	B			Nickel	7440-02-0		0.4344	mg			1,582
								+C	-C	Supplier			Polyimide Resin	Trade Secre		0.102	mg			371

+S	-S	Silver	7440-22-4		0.0313	mg			114
+S	-S	3, 6, 9-trioxaundecamet	109-17-1		0.0204	mg			74
+S	-S	2-Hydroxyethyl methac	868-77-9		0.0026	mg			9
+S	-S	Methanol	67-56-1		0.0026	mg			9

+I	-I	Soldering Ball	+M	-M	Soldering Ball	72.5	mg	+C	-C	Supplier		+S	-S	Tin	7440-31-5		69.9625	mg			254,77
												+S	-S	Silver	7440-22-4		2.175	mg			7,921
												+S	-S	Copper	7440-50-8		0.3625	mg			1,320