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1752-2 1.1		Web Site for Informat		-1752 Standa	ard		Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous Materials and I								and Mfg Informa	
Supplier Information																
Company Name *	Unique ID Au	uthority	Respon	se Date	*	F	Response	e Docun	nent ID							
SEMTECH CORPORATION SEMTECH CORPORA			RATION			2016-06	016-06-22									
Contact Name * Title - Contact				Phone - Con	Email -	Contac	t *			г	2	A (1				
Elvia Finkel Specialist, Document			t Control/C	805-498-211	1	efinkel	efinkel@semtech.com				olicate	Contact -	·> Autho	rized Re	presentative	
Authorized Representative * Title - Representative			9	Phone - Rep	resentative *	Email -	Email - Representative *			Supplier Comments or URL for Additional Information						
Elvia Finkel Specialist, Document Contro				805-498-211	1	efinkel	@semte	ch.com								
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective	Date	Version Manufa		ufacturing Site		Weight *	UC	M	Unit Type		
		GX3290-CBE3		290 x 290 3.5	3						31,580	mg	J	Each		
Alternate Recommenda	ation				Alternate Item			Item Cor	nments		·		-			
Manufacturing Proces	ss Inf	formation														
Terminal Plating / Grid Array Material Termina			Terminal Ba	ase Alloy	J-STD-020 MSL Ra	ating Peak Process Body T			y Temperature Ma		Max Time at Peak Temperature		perature	Number of Reflow Cycles		
Tin/Silver/Copper (Sn/Ag/Cu) CU All Comments			CU Alloy	,	3			2	245 C	30 secon			conds	3		
GX3290-CBE3 is REACH	-com	npliant product, per	EU Regul	ation EC1907	7/2006 to include	recent a	addition	of SVHC	candi	date list	of subs	stances in	Decem	ber 201	5	

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	Evenuet	Weight	Unit of	Tolerar	nce PPM
	Name		Material	weight	Measure		Levei	Substance Category			Substance	CAS	Exempt	weight	Measure	-	+ PPIVI
+1 -1	Substrate	+M -M	Core	4,000	mg	+C -0	Supplier		+S	-\$	Organic Resin	N/A		840	mg		26,59
	-		-						+S	-S	Inorganic Filler	N/A		1,560	mg		49,39
									+S	-S	Glass Fiber	65997-17-3		1,600	mg		50,66
		+M -M	Cu Foil	1,840	mg	+C -C	Supplier		+S	-S	Cu	7440-50-8		1,839	mg		999,5
						+C -0	В		+S	-s	Arsenic	7440-38-2		1	mg		500
		+M -M	Build Up	604	mg	+C -C	Supplier		+S	-S	Build up	N/A		604	mg		1,000
		+M -M	Solder Mask	142	mg	+C -C	Supplier		+S	-S	Organic resin	N/A		92	mg		650,0
	_								+S	-s	Inorganic Filler	N/A		50	mg		350,0
+1 -1	Heat Spreader	+M -M	Heat Spreader	22,523	mg	+C -0	Supplier		+S	-S	Cu	7440-50-8		22,208	mg		986,0
	_					+C -0	В		+S	-S	Nickel	7440-02-0		315	mg		14,00
+1 -1	Lid Adhesive	+M -M	Lid Adhesive [D	C 100	mg	+C -0	Supplier		+S	-s	Siloxanes and silicones	68083-19-2		45	mg		450,0
									+S	-s	Silica, crystalline - quar	14808-60-7		40	mg		400,0
	_								+S	-s	Dimethylvinylated and t	68988-89-6		15	mg		150,0
+1 -1	Silicon Die(Custon	+M -M	Chip	5	mg	+C -0	Supplier		+S	-S	Si	7440-21-3		5	mg		1,000
+1 -1	7440-21-3	+M -M	hermal Grease [н	mg	+C -0	Supplier		+S	-S	Proprietary Material-Oth	N/A		0	mg		80,00
									+S	-s	Aluminium, metal and a	7429-90-5		0	mg		720,0
									+S	-s	Zinc oxide	1314-13-2		0	mg		180,0
	_								+S	-s	Proprietary Material-Ad	N/A		0	mg		20,00
+1 -1	Underfill	+M -M	Underfill [NAU-2	271	mg	+C -0	Supplier		+S	-S	1,6-Bis(2,3-epxoypropo	27610-48-6		0	mg		150,0
									+S	-s	Bisphenol F type liquid	9003-36-5		0	mg		70,00
									+S	-s	Bisphenol A liquid Epo	25068-38-6		0	mg		50,00
									+S	-s	Amine type hardener	N/A		0	mg		70,00
									+S	-s	Silica, vitreous	60676-86-0		0	mg		600,0

	+S -S Carbon Black					1333-86-4 0 mg			mg	10,000			10,000					
+S -S Proprietary Material-Ad								0	mg				50,000					
+I -I Bump	+M -M Bump 6 mg +				-C	Supplier	er -					+S -S Sn			6	mg	9	977,27
										+S	-s	Ag		7440-22-4	0	mg		22,727
+I -I Solder Balls	+M -M Solder Balls	2,360	mg	+C	-C	Supplier			-	٠S-	·s	Sn		7440-31-5	2,277	mg	9	964,99
										+S	-s	Ag		7440-22-4	71	mg		30,002
										+S	-s	Cu		7440-50-8	12	mg		5,000