	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lo		parts, the	declaratio	on encor		ver level mate	rials for	which tl	e item is an assembly he manufacturer has declaration.		
1752-2 1.1		Web Site for Informat ://www.ipc.org/IPC-1		-1752 Standa	ard		Form Type *Declaration Class *DistributeClass 6 - RoHS Yes/No, Home					ogeneous Materials and Mfg Informat				
Supplier Information																
Company Name * Company Unique ID				Unique ID Authority			Response Date *			Response Doo						
SEMTECH CORPORATION SEMTECH CORP		SEMTECH CORPO	RATION	ON			-06-29									
Contact Name * Title - Contact			Phone - Contact *			il - Contac	:t *				A .1]			
Elvia Finkel Specialist, Documen		t Control/C	ontrol/C 805-498-2111		efink	efinkel@semtech.com			Duplicate	e Contact -	> Autho	rized Re	epresentative			
Authorized Representative * Title - Representative			е	Phone - Representative *		Emai	Email - Representative *			Supplier Comments or URL for Additional Information						
Elvia Finkel Specialist, Document		nt Control/C	ol/C 805-498-2111			efinkel@semtech.com										
Requester Item Number		Mfr Item Number		Mfr Item Name		Effect	Effective Date Vers		Manufa	acturing Site	Weight *	UO	M	Unit Type		
		GS2964-INE3		Adaptive Cable Equalizer			М		Malays	sia	45.12	5.12 mg		Each		
Alternate Recommenda	ation	on					Alternate Iter		e Item Co	omments						
Manufacturing Proces	ss In	formation														
Terminal Plating / Grid Array Material Terminal B			ase Alloy J-STD-020 MSL R		L Rating	ting Peak Process Body Ten		/ Temper	ature Max Time	e at Peak Temp	perature	Number	of Reflow Cycles			
Matte Tin (Sn) - annealed CU All			CU Alloy	3			260				30 se	conds	3			
GS2964-INE3 is a REACH	H-cor	mpliant product, per	r EU Regu	lation EC190	7/2006 to incl	ude recer	nt additior	n of SVH	IC cand	idate list of s	ubstances D	ecembe	er 2015			

Save the fields in this form to a file	Evport Data	Import fields from a file into this form	Import Data	Clear all of the fields on this form	Reset Form	Lock the fields on this form to prevent chan	Look Cupplier Fields				
RoHS Material Composition Declaration Declaration Type * Detailed											
		ty limit of 0.1% by mass (100 Ethers (PBDE) and quantity					ominated Biphenyls (PBB),				
chromium, polybromina excess of an applicable gathered the information Company will rely on thi completing this form, ar certifications regarding conditions of that agree	ted biphenyls and/or polybrominate quantity limit, please indicate below it provides in this form using app s certification in determining the co d that Supplier may not have inde heir contributions to the part, and ment, including any warranty rights	ompliance of its products with European pendently verified such information. Ho those certifications are at least as comp	ricted substance?) in excess believe may apply. If the p y and that such information n Union member state laws owever, in situations where prehensive as the certificati hat agreement, will be the s	ss of the applicable quantity lim part is an assembly with lower I is true and correct to the best of that implement the RoHS Dire Supplier has not independently ion in this paragraph. If the Co sole and exclusive source of the	it identified above. If a homoge evel components, the declaration of its knowledge and belief, as of ctive. Company acknowledges y verified information provided lo popany and the Supplier enter is a Supplier?s liability and the Co	eneous material within the part cor on shall encompass all such comp of the date that Supplier complete: s that Supplier may have relied on by others, Supplier agrees that, at into a written agreement with resp impany?s remedies for issues that	ntains a RoHS restricted substance in ponents. Supplier certifies that it s this form. Supplier acknowledges that information provided by others in a minimum, its suppliers have provided				
RoHS Declaration	n * 1 - Item(s) does not conta	ain RoHS restricted substances per the	he definition above			Supplier Acceptance *	Accepted				
	e declared item does not co all applicable exemptions.	ntain RoHS restricted substanc	es per the definition a	above except for defined	RoHS exemptions, then	select the corresponding re	esponse in the RoHS Declaration				
Declaration S	ignature										
In a family of the second	ward a factor and the factor of the second s	al Calaba and all manages of the last		a second se		and the second s	terrestring and - Distingthe stars				

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		Unit of		Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM
Name		Material	Weight	Measure			oubstance outegory			oubstance	UAU	Exempt			-	+	
+I -I Leadframe	+M -M	194	17.78	mg	+C -C	Supplier		+S	-S	Cu	7440-50-8		17.34	mg			975,00
								+S	-S	Fe	7439-89-6		0.42	mg			23,500
								+S	-S	Zn	7440-66-6		0.02	mg			1,198
								+S	-S	Р	7723-14-0		0.01	mg			298
+I -I Mold Compound	+M -M	EME G770HCD	22.86	mg	+C -C	Supplier		+S	-s	SiO2	60676-86-0		20.96	mg			917,00
				•				+S	-s	Epoxy Resin	Trade Secre		0.91	mg			39,998
								+S	-S	Phenolic Resin	Trade Secre		0.91	mg			39,998
								+S	-s	Carbon Black	1333-86-4		0.07	mg			3,001
+I -I Chip	+M -M		2.33	mg	+C -C	Supplier		+S	-s	Si	7440-21-3		3.69	mg			997,10
								+S	-s	w	7440-33-7			mg			1,300
								+S	-s	AI	7429-90-5		0.02	mg			1,240
								+S	-s	Ті	7440-32-6			mg			301
								+S	-s	Other	N/A		0	mg			59
+I -I Die Attach	+M -M	CRM-1076NS	1.1	mg	+C -C	Supplier		+S	-s	Ag	7440-22-4		0.88	mg			800,00
								+S	-s	Epoxy Resin	900-36-5		0.12	mg			105,00
								+S	-s	1,2-Epoxy-3- (Tolyloxy)	26447-14-3		0.07	mg			60,000
								+S	-s	Bisphenol-F	620-92-8		0.03	mg			30,000
								+S	-S	Dicyandiamide	461-58-5		0.01	mg			5,000
+I -I Wire	+M -M		0.42	mg	+C -C	Supplier		+S	-s	Au	7440-57-5		0.42	mg			999,90
+I -I Terminal Finish	+M -M		0.55	mg	+C -C	Supplier		+S	-S	Sn	7440-31-5		0.55	mg			1,000,0
+I -I Internal Pad Plati	ng+M -M		0.08	mg	+C -C	Supplier		+S	-s	Ag	7440-22-4		0.08	mg			1,000,0