	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level pa	rts, the	declaratio	n encon	npasses all lo		erials for	which	ne item is an assembly the manufacturer has declaration.		
1752-2 1.1		Web Site for Informat		-1752 Standa	ard	Form Distri	Type * bute			ntion Class * - RoHS Yes/	lass * S Yes/No, Homogeneous Materials and Mfg Informat					
Supplier Information																
Company Name *		Company Unique ID		Unique ID A	uthority	Respo	nse Date) *		Response Do	cument ID					
Semtech Corporation		SEMTECH CORPORATION				2017-02-03										
Contact Name * T		Title - Contact		Phone - Contact *		Email - Contact *						• •				
Elvia Finkel		Specialist, Documen	t Control/C	805-498-2111		efinkel@semtech.com				Duplicate Contact -> Authorized Representative						
Authorized Representative * Title - Representative		Э	Phone - Rep	Email - Representative *			*	Supplier Comments or URL for Additional Information								
Elvia Finkel		Specialist, Documen	t Control/C	805-498-211	efinkel@semtech.com											
Requester Item Number		Mfr Item Number		Mfr Item Name	Effective Date		Version	Manufa	cturing Site Weight *		UC	M	Unit Type			
	GS12181-INE3			12G UHD-SE	DI Retiming Cable I	þ		Malay		sia	0.06866	g		Each		
Alternate Recommenda	ation				Alternate Item Co			mments	I							
Manufacturing Proces	ss In	formation								I						
Terminal Plating / Grid Array	Materi	ial	Terminal Ba	ase Alloy	J-STD-020 MSL Ra	ating F	Peak Proc	ess Body	Tempera	ature Max Tim	e at Peak Tem	perature	Number	of Reflow Cycles		
Nickel/Palladium/Gold (Ni/Pd/Au) CU Alloy				260 (2 60 C		30 seconds 3							
Comments GS12181-INE3 is REACH	l-com	npliant product, per	EU Regula	ation EC190	7/2006 to include	recent a	addition	of SVHC	candi	date list of s	ubstances in	June 2	016.			

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 Materia	Composition Declar	ation				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	town - town

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	Exempt	Weight		Tolerance		PPM
	Name		Material	weight	Measure			Substance Category			Substance		Lvempt	Weight	Measure	-	+	
+ -	Die	+M -M	Silicon Chip	0.00201	g	+C -C	Supplier		+S -	-s	Si	7440-21-3		0.00201	g			29,274
+ -	Lead Frame	+M -M	Copper Alloy Cu	0.03312	g	+C -C	Supplier		+S -	-s	Cu	7440-50-8		0.03187	g			464,14
									+S ·	-S	Zinc	7440-66-6		0.00003	g			482.38
									+S ·	-s	Iron	7439-89-6		0.00076	g			11,094
									+S ·	-s	Phosphorous	7723-14-0		0.00002	g			337.66
						+C -C	A		+S -	-s	Lead	7439-92-1		0	g			48.24
						+C -C	в		+S -	-s	Nickel	7440-02-0		0.0004	g			5,788.5
						+C -C	Supplier		+S -	-s	Gold	7440-57-5		0.00001	g			144.71
									+S ·	-s	Silver	7440-22-4		0.00001	g			96.48
									+S ·	-s	Palladium	7440-05-3		0.00002	g			241.19
+ -	Die attach material	+M -M	Screen Print 800	0.00082	g	+C -C	Supplier		+S -	-s	Aluminium oxide	1344-28-1	•	0.00025	g		:	3,582.8
									+S ·	-s	Diethylene glycol mono	112-15-2		0.00033	g			4,777.1
									+S ·	-s	Epoxy resin	25068-38-6		0.00006	g			836
									+S ·	-s	Epoxy resin	Proprietary		0.00016	g			2,388.5
									+S ·	-s	Aromatic amine	Proprietary		0.00002	g			358.29
+ -	Wire	+M -M	Gold	0.00072	g	+C -C	Supplier		+S -	-s	Au	7440-57-5		0.00072	g		,	10,485
									+S ·	-s	Others	N/A		0.00000	g			1.05
+ -	Encapsulation	+M -M	EME-G770HCD	0.03199	g	+C -C	Supplier		+S -	-s	Silica Fused	60676-86-0		0.02997	g			436,56
									+S ·	-s	Epoxy Resin	Trade Secre		0.00096	g			13,977
									+S -	-s	Phenol Resin	Trade Secre		0.00096	g			13,977
									+S ·	-s	Carbon Black	1333-86-4		0.0001	g			1,397.7