



# 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 <a href="http://www.ipc.org/IPC-175x">http://www.ipc.org/IPC-175x</a>	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
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## Supplier Information

Company Name * IDT Inc.	Company Unique ID	Unique ID Authority	Response Date * 2010-06-25	Response Document ID HLG676				
Contact Name * CS Phek	Title - Contact Engineer	Phone - Contact * 604-613-2538	Email - Contact * csphek@idt.com	<input type="button" value="Duplicate Contact -&gt; Authorized Representative"/>				
Authorized Representative * CS Phek	Title - Representative Engineer	Phone - Representative * 604-613-2538	Email - Representative * csphek@idt.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
		HLG676	2010-06-25	0	ATT	5,537	mg	Each
Alternate Recommendation				Alternate Item Comments				

## Manufacturing Process Information

Terminal Plating / Grid Array Material <b>Tin/Silver/Copper (Sn/Ag/Cu)</b>	Terminal Base Alloy <b>Not Applicable</b>	J-STD-020 MSL Rating <b>4</b>	Peak Process Body Temperature <b>245 C</b>	Max Time at Peak Temperature <b>30 seconds</b>	Number of Reflow Cycles <b>3</b>
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Comments

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Lock Supplier Fields

## RoHS Material Composition Declaration

Declaration Type \*

Simplified

**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

Supplier certifies that it gathered the information it provides in this form concerning RoHS restrictive substances 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.

**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	HLG676	+M	-M	Encapsulant	21.59	mg	+C	-C	Supplier	Binder	+S	-S	p-(2,3-epoxypropoxy)-N	5026-74-4		2.16	mg	0.02	0.02	390
								+C	-C	Supplier	Binder	+S	-S	Bisphenol F Type liquid	9003-36-5		2.16	mg			390
								+C	-C	Supplier	Binder	+S	-S	Bisphenol A Type liquid	25068-38-6		1.08	mg			195
								+C	-C	Supplier	Binder	+S	-S	Amine type Hardener	Trade Secre		1.62	mg			293
								+C	-C	Supplier	Coloring	+S	-S	Carbon Black	1333-86-4		0.11	mg			20
								+C	-C	Supplier	Filler	+S	-S	Silicon Dioxide	60676-86-0		13.39	mg			2,418
								+C	-C	Supplier	Binder	+S	-S	Additives	Trade Secre		1.08	mg			195
		+M	-M	Heat Spreader	3,026.52	mg	+C	-C	Supplier	Metal	+S	-S	Copper	7440-50-8		2,965.99	mg			535,66	
								+C	-C	Supplier		+S	-S	Nickel (Use Internal On	7440-22-4		60.53	mg			10,932
		+M	-M	Heat Spreader A	160	mg	+C	-C	Supplier	Filler	+S	-S	Dimethyl Siloxane	68083-19-2		72	mg			13,003	
								+C	-C	Supplier	Binder	+S	-S	Quartz	14808-60-7		72	mg			13,003
								+C	-C	Supplier	Additive	+S	-S	Dimethylvinylated Silica	68988-89-6		16	mg			2,890
		+M	-M	Thermal Grease	161.1	mg	+C	-C	Supplier	Filler	+S	-S	Zinc	1314-13-2		56.38	mg			10,183	
								+C	-C	Supplier	Binder	+S	-S	Al	Trade Secre		72.49	mg			13,093
								+C	-C	Supplier	Binder	+S	-S	Siloxane	Trade Secre		32.22	mg			5,819
		+M	-M	Substrate	1,519.91	mg	+C	-C	Supplier	Core Filler	+S	-S	Epoy Resin	Trade Secre		188.08	mg			33,969	
								+C	-C	Supplier	Core Binder	+S	-S	Glass Cloth	65997-17-3		342.46	mg			61,850
								+C	-C	Supplier	Core Binder	+S	-S	Silica	7631-86-9		40.23	mg			7,265
								+C	-C	Supplier	Conductive	+S	-S	Copper	7440-50-8		516.41	mg			93,266
								+C	-C	Supplier	Solder Mask Filler	+S	-S	Talc containing no asbe	14807-96-6		3.35	mg			605
								+C	-C	Supplier	Solder Mask Binder	+S	-S	Solvent Naphtha	64742-94-5		10.05	mg			1,815
								+C	-C	Supplier	Solder Mask Binder	+S	-S	Naphthalene	91-20-3		1.67	mg			302
								+C	-C	Supplier	Solder Mask Binder	+S	-S	Morphpoline derivative	Trade Secre		3.35	mg			605

					+C	-C	Supplier	Solder Mask Binder	+S	-S	Silica Amorphous	7631-86-9		0.84	mg			151
					+C	-C	Supplier	Solder Mask Binder	+S	-S	Barium Sulfate	7727-43-7		30.99	mg			5,596
					+C	-C	Supplier	Solder Mask Binder	+S	-S	Dipropylene glycol mo	34590-94-8		13.4	mg			2,420
					+C	-C	Supplier	Solder Mask Binder	+S	-S	Epoxy Resin	Trade Secr		12.56	mg			2,269
					+C	-C	Supplier	Solder Mask Binder	+S	-S	Epoxy Resin	85954-11-6		7.54	mg			1,361
					+C	-C	Supplier	Plug Filler	+S	-S	Inorganic Filler	Trade Secre		0.0783	mg			14
					+C	-C	Supplier	Plug Binder	+S	-S	Bisphenol A Diglycidyl	1675-54-3		0.0418	mg			8
					+C	-C	Supplier	Plug Binder	+S	-S	Amino Glycidyl Ethers	110656-67-2		0.0266	mg			5
					+C	-C	Supplier	Plug Binder	+S	-S	Hardener of Epoxy Res	Trade Secre		0.0046	mg			1
					+C	-C	Supplier	Plug Binder	+S	-S	Defoamer	Trade Secre		0.0008	mg			0
					+C	-C	Supplier	Build Up Filler	+S	-S	Silica	7631-86-9		51.98	mg			9,388
					+C	-C	Supplier	Build Up Binder	+S	-S	Coal Tar Naphtha	64742-94-5		3.5	mg			631
					+C	-C	Supplier	Build Up Binder	+S	-S	Epoxy Resin, Polymer R	Trade Secre		290.61	mg			52,848
					+C	-C	Supplier	Metal	+S	-S	Tin	7440-31-5		2.74	mg			494
+M	-M	Solder Bump	12.23	mg	+C	-C	Supplier	Metal	+S	-S	Tin	7440-31-5		11.95	mg			2,158
					+C	-C	Supplier	Metal	+S	-S	Silver	7440-22-4		0.28	mg			51
+M	-M	Solder Ball	580.83	mg	+C	-C	Supplier	Metal	+S	-S	Tin	7440-31-5		560.5	mg			101,22
					+C	-C	Supplier	Metal	+S	-S	Silver	7440-22-4		17.42	mg			3,147
					+C	-C	Supplier	Metal	+S	-S	Copper	7440-50-8		2.9	mg			525
+M	-M	Silicon Chip	54.82	mg	+C	-C	Supplier	Silicon	+S	-S	Silicon	7440-21-3		54.82	mg			9,900