



# 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	Company Unique ID	Unique ID Authority	Response Date * 2010-03-15	Response Document ID PI16				
Contact Name * CS Phek	Title - Contact Engineer	Phone - Contact * 604-613-2538	Email - Contact * csphek@idt.com	Duplicate Contact -> 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
		PI16	2010-03-15	0	Hana	450.49	mg	Each
Alternate Recommendation				Alternate Item Comments				

## Manufacturing Process Information

Terminal Plating / Grid Array Material <b>Matte Tin (Sn) - annealed</b>	Terminal Base Alloy <b>CU Alloy</b>	J-STD-020 MSL Rating <b>3</b>	Peak Process Body Temperature <b>260 C</b>	Max Time at Peak Temperature <b>30 seconds</b>	Number of Reflow Cycles <b>3</b>
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Comments

Save the fields in this form to a file

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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 \*** 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions

**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.

Exemption List Version EL2006/690/EC

+ - 7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).

## 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		+M	-M				+C	-C			+S	-S						-	+	
+I	-I	PI16	+M	-M	Mold Compound	295	mg	+C	-C	Supplier	Filler	+S	-S	Fused Silica	60676-86-0		258.12	mg	0.02	0.02	572,97
								+C	-C	Supplier	Binder	+S	-S	Polymeric Resin	Trade Secre		14.75	mg			32,741
								+C	-C	Supplier	Binder	+S	-S	Cresol Novolac	Trade Secre		5.9	mg			13,097
								+C	-C	Supplier	Binder	+S	-S	Phenol Resin	Trade Secre		14.75	mg			32,741
								+C	-C	Supplier	Coloring	+S	-S	Carbon Black	1333-86-4		1.47	mg			3,274
			+M	-M	Die Attach Adhes	0.59	mg	+C	-C	Supplier	Filler	+S	-S	Silver	7440-22-4		0.46	mg			1,020
								+C	-C	Supplier	Binder	+S	-S	Epoxy Resin	Trade Secre		0.09	mg			197
								+C	-C	Supplier	Binder	+S	-S	Aromatic Amine	Trade Secre		0.04	mg			99
			+M	-M	Lead Frame	82.17	mg	+C	-C	Supplier	Copper Alloy	+S	-S	Copper	7440-50-8		79.95	mg			177,48
								+C	-C	Supplier	Copper Alloy	+S	-S	Iron	7439-89-6		1.72	mg			3,825
								+C	-C	Supplier	Copper Alloy	+S	-S	Phophorus	7723-14-0		0.012	mg			27
								+C	-C	Supplier	Copper Alloy	+S	-S	Zinc	7440-66-6		0.04	mg			91
								+C	-C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1		0.02	mg			55
								+C	-C	Supplier	Silver Plating	+S	-S	Silver	7440-22-4		0.41	mg			912
			+M	-M	Lead Finish	17.55	mg	+C	-C	Supplier	Solder Plating	+S	-S	Tin	7440-31-5		17.55	mg			38,957
			+M	-M	Bond Wire	0.07	mg	+C	-C	Supplier	Wire	+S	-S	Gold	7440-57-5		0.07	mg			158
			+M	-M	Silicon	1.86	mg	+C	-C	Supplier	Silicon Chip	+S	-S	Silicon	7440-21-3		1.86	mg			4,122
+I	-I	Crystal Device	+M	-M	Resonator	0.72	mg	+C	-C	Supplier	Filler	+S	-S	Silicon Dioxide	Trade Secre		0.72	mg			1,596
			+M	-M	Cap	44.97	mg	+C	-C	Supplier	Metal Alloy	+S	-S	Copper	7440-50-8		26.08	mg			57,895
								+C	-C	Supplier	Metal Alloy	+S	-S	Zinc	7440-66-6		17.54	mg			38,943
								+C	-C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1	7a. Lead	1.35	mg			2,991
			+M	-M	Holder Ring	1.95	mg	+C	-C	Supplier	Metal Alloy	+S	-S	Iron	7439-8-96		1.15	mg			2,542
								+C	-C	Supplier	Metal Alloy	+S	-S	'Nickel	'7440-02-0		0.79	mg			1,750

					+C	-C	Supplier	Metal Alloy	+S	-S	Manganese	7439-96-5		0.02	mg			47
+M	-M	Lead Frame	1.12	mg	+C	-C	Supplier	Metal Alloy	+S	-S	Iron	7439-8-96		0.59	mg			1,312
					+C	-C	Supplier	Metal Alloy	+S	-S	'Nickel	'7440-02-0		0.32	mg			721
					+C	-C	Supplier	Metal Alloy	+S	-S	Cobalt	7440-48-4		0.2	mg			449
+M	-M	Lead Plating	1.22	mg	+C	-C	Supplier	Metal	+S	-S	Tin	7440-31-5		0.09	mg			189
					+C	-C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1	7a. Lead	1.14	mg			2,530
+M	-M	Seal	3.18	mg	+C	-C	Supplier	Binder	+S	-S	Glass	Trade Secre		3.18	mg			7,070
+M	-M	Epoxy Resin	0.09	mg	+C	-C	Supplier	Binder	+S	-S	Polymeric Resin	Trade Secre		0.06	mg			130
					+C	-C	Supplier	Filler	+S	-S	Silver	7440-22-4		0.03	mg			59