



# 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

<b>Company Name *</b> Cypress Semiconductor Corp	Company Unique ID CY	Unique ID Authority CY	<b>Response Date *</b> 2018-08-15	Response Document ID				
<b>Contact Name *</b> Quality Customer Support	Title - Contact Quality Customer Support	<b>Phone - Contact *</b> 6328497500	<b>Email - Contact *</b> qacs_team@cypress.com	Duplicate Contact -> Authorized Representative				
<b>Authorized Representative *</b> Jeff Gary Balleca	Title - Representative EH&S Engineer	<b>Phone - Representative *</b> 6328497500	<b>Email - Representative *</b> jgtb@cypress.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
LT - 88L - 10x10x1.0 mm	LT - 88L - 10x10x1.0 mm	LT - 88L - 10x10x1.0 mm	2018-08-15		UTAC Thailand	285.647	mg	Each
Alternate Recommendation				Alternate Item Comments				

## Manufacturing Process Information

Terminal Plating / Grid Array Material <b>Nickel/Palladium/Gold (Ni/Pd/Au)</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  
**USING Copper-Palladium Wire - NiPdAu**

Save the fields in this form to a file

Export 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 changes

Lock Supplier Fields

## RoHS Material Composition Declaration

Declaration Type \*

Detailed

**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

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.

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	Leadframe	+M	-M	Base Material	151.9344	mg	+C	-C	Supplier	Copper	+S	-S	Iron	7440-50-8		147.9993	mg			518,12
								+C	-C	Supplier	Iron	+S	-S	Iron	7439-89-6		3.6464	mg			12,765
								+C	-C	Supplier	Phosphorous	+S	-S	Phosphorous	7723-14-0		0.1064	mg			372
								+C	-C	Supplier	Zinc	+S	-S	Zinc	7440-66-6		0.1823	mg			638
+I	-I	Leadfinish	+M	-M	External Plating	2.3656	mg	+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0		2.2833	mg			7,993
								+C	-C	Supplier	Palladium	+S	-S	Palladium	7440-05-3		0.0411	mg			144
								+C	-C	Supplier	Gold	+S	-S	Gold	7440-57-5		0.0412	mg			144
+I	-I	Die Attach	+M	-M	Adhesive	21.1418	mg	+C	-C	Supplier	Silver	+S	-S	Silver	7440-22-4		17.456	mg			61,110
								+C	-C	Supplier	exo-1,7,7-trimethylbic	+S	-S	exo-1,7,7-trimethylbicyc	7534-94-3		1.285	mg			4,499
								+C	-C	Supplier	(Octahydro-4.7-metha	+S	-S	(Octahydro-4.7-methano	42594-17-2		1.285	mg			4,499
								+C	-C	Supplier	Isobornyl acrylate	+S	-S	Isobornyl acrylate	5888-33-5		1.285	mg			4,499
								+C	-C	Supplier	Bis(.alpha...alpha.-Di	+S	-S	Bis(.alpha...alpha.-Dime	80-43-3		0.107	mg			375
+I	-I	Die	+M	-M	Circuit	3.9395	mg	+C	-C	Supplier	Si	+S	-S	Si	7440-21-3		3.9395	mg			13,791
+I	-I	Wire	+M	-M	Interconnect	2.06	mg	+C	-C	Supplier	Copper	+S	-S	Copper	7440-50-8		2.02	mg			7,072
								+C	-C	Supplier	Palladium	+S	-S	Palladium	7440-05-3		0.04	mg			140
+I	-I	Mold compound	+M	-M	Encapsulation	103.9295	mg	+C	-C	Supplier	Silica fused	+S	-S	Silica fused	60676-86-0		94.0562	mg			329,27
								+C	-C	Supplier	Epoxy resin	+S	-S	Epoxy resin	Trade secre		4.8847	mg			17,100
								+C	-C	Supplier	Phenol resin	+S	-S	Phenol resin	Trade secre		4.8847	mg			17,100
								+C	-C	Supplier	Carbon black	+S	-S	Carbon black	1333-86-4		0.1039	mg			364