

**Material Composition Declaration**

This is the ProCM declaration for the materials that belong with a specific part. See further instructions elsewhere to determine proper usage guidelines.

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.

IPC Web Site for Information on IPC-1752 Standard
<http://www.ipc.org/IPC-175x>

Form Type *
Distribute

Declaration Class *
Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information

Supplier Information

Company Name *	Company Unique ID	Unique ID Authority	Response Date *	Response Document ID					
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *						
Authorized Representative *	Title - Representative	Phone - Representative *	Email - Representative *		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
	Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material	Terminal Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	Number of Reflow Cycles
Comments					

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 *

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 | EL-2006/690/EC

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	Mass	UOM	Substance	CAS	Exemption	Mass	UOM	WT%	PPM
WIRE	0.00021	g	Au	7440-57-5		0.00021	g	99.99	5,087
			Others	-		0	g	0.01	1
Die	0.00042	g	Si	7440-21-3		0.00042	g	100	10,174
Die Attach	0.00011	g	Ag	7440-22-4		8.9E-05	g	80.5	2,145
			Carbocyclic Acrylates	proprietary		1.1E-05	g	10	266
			Bismaleimide resin	proprietary		3E-06	g	3	80
			2-preponoic acid, 2-methyl	68586-19-6		3E-06	g	3	80
			Additive	proprietary		3E-06	g	3	80
			Dicumlyl peroxide	80-43-3		1E-06	g	0.5	13
Leadframe	0.01647	g	P	7723-14-0		4E-06	g	0.024	96
			Cu	7440-50-8		0.015908	g	96.59	385,377
			Fe	7439-89-6		0.000372	g	2.256	9,001
			Ag	7440-22-4		0.000165	g	1	3,990
			Pb	7439-92-1		0	g	0.003	12
			Zn	7440-66-6		2.1E-05	g	0.127	507
Encapsulation	0.02385	g	Silica Fused	60676-86-0		0.022347	g	93.7	541,363
			Carbon Black	1333-86-4		7.2E-05	g	0.3	1,733
			Epoxy resin	Proprietary		0.000716	g	3	17,333
			Phenol resin	PROPRIETARY		0.000716	g	3	17,333
Lead Finish	0.00022	g	Sn	7440-31-5		0.00022	g	99.99	5,329
			Others	-		0	g	0.01	1

Material	Cd PPM	Cr PPM	Hg PPM	PBB PPM	PBDE PPM	Pb PPM
WIRE	ND	ND	ND	ND	ND	ND
Die Attach	ND	ND	ND	ND	ND	ND
Leadframe	ND	ND	ND	ND	ND	7
Encapsulation	ND	ND	ND	ND	ND	ND
Lead Finish	ND	ND	ND	ND	ND	7