



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
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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	0.17	mg	Au	7440-57-5		0.169983	mg	99.99	9,679
			Others	-		1.7E-05	mg	0.01	1
Die	1	mg	Si	7440-21-3		1	mg	100	56,940
Die Attach	0.07	mg	Ag	7440-22-4		0.05635	mg	80.5	3,209
			Carbocyclic Acrylates	proprietary		0.007	mg	10	399
			Additive	proprietary		0.0021	mg	3	120
			Dicumlyl peroxide	80-43-3		0.00035	mg	0.5	20
			Bismaleimide resin	proprietary		0.0021	mg	3	120
			2-preponoic acid, 2-methyl	68586-19-6		0.0021	mg	3	120
Leadframe	7.8	mg	P	7723-14-0		0.001872	mg	0.024	107
			Cu	7440-50-8		7.53402	mg	96.59	428,984
			Fe	7439-89-6		0.175968	mg	2.256	10,020
			Ag	7440-22-4		0.078	mg	1	4,441
			Pb	7439-92-1		0.000234	mg	0.003	13
			Zn	7440-66-6		0.009906	mg	0.127	564
Encapsulation	8.12	mg	Carbon Black	1333-86-4		0.01624	mg	0.2	925
			Phenol resin	PROPRIETARY		0.3654	mg	4.5	20,806
			Others	-		0.1624	mg	2	9,247
			Epoxy Resin-1	Proprietary		0.2436	mg	3	13,870
			Epoxy Resin-2	Proprietary		0.2436	mg	3	13,870
			Silica	60676-86-0		7.08876	mg	87.3	403,631
Lead Finish	0.40248	mg	Others	-		4E-05	mg	0.01	2
			Sn	7440-31-4		0.40244	mg	99.99	22,915

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