



# 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 *	Company Unique ID	Unique ID Authority	Response Date *	Response Document ID				
Mindspeed Technologies Inc	N/A	N/A	2012-05-28					
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *					
Cynthia Ong	Program Manager	949-579-5515	cynthia.ong@mindspeed.com					
Authorized Representative *	Title - Representative	Phone - Representative *	Email - Representative *	Supplier Comments or URL for Additional Information				
Amy Teng	Quality Engineer	604-6328114	amy.teng@mindspeed.com					
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
M21452G-13	M21452G-13	10QFN 72	2010-11-03	C	Amkor, Korea	276.44	mg	EACH
Alternate Recommendation		NA		Alternate Item Comments	NA			

## 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
Tin	Cu Alloy	3	260 C	40 seconds	3
Comments					
N/A					

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## 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
											-	+	
M21452G-13	Leadframe	134.92	mg	C	GROUP-C	Phosphorous	7723-14-0		0.040476	mg			300
				C	GROUP-C	Copper	7440-50-8		131.4795	mg			974,49
				C	GROUP-C	Iron	7439-89-6		3.23808	mg			23,999
				C	GROUP-C	Zinc	7440-66-6		0.161904	mg			1,200
Wire		5.98	mg	C	GROUP-C	Gold	7440-57-5		5.979820	mg			999,96
				C	GROUP-C	Calcium	7440-70-2		0.000119	mg			20
				B	Beryllium/Beryllium Co	Beryllium	7440-41-7		0.000059	mg			0.2163
Die Attach		1.87	mg	C	GROUP-C	Poly[oxy(methyl- 1,2-eth	9046-10-0		0.0748	mg			39,999
				C	GROUP-C	Silver, metal and alloys	7440-22-4		1.4399	mg			769,99
				C	GROUP-C	Fatty acids, C18-unsatd.	68475-94-5		0.0748	mg			39,999
				C	GROUP-C	gamma-Butyrolactone	96-48-0		0.0748	mg			39,999
				C	GROUP-C	2,6-diglycidyl phenyl alk	417-470-1		0.0748	mg			39,999
				C	GROUP-C	Bisphenol F type liquid	9003-36-5		0.1309	mg			69,999
Die		11.29	mg	C	GROUP-C	Silicon Die	7440-21-3		11.29	mg			999,99
Leadfinish		4.25	mg	C	GROUP-C	Tin	7440-31-5		4.25	mg			999,99
Leadframe Platin		1.5	mg	C	GROUP-C	Silver	7440-22-4		1.5	mg			999,99
Mold compound		116.63	mg	C	GROUP-C	Carbon black	1333-86-4		0.34989	mg			3,000
				C	GROUP-C	Epoxy resins	Proprietary		10.4967	mg			89,999
				C	GROUP-C	Phenolic resins	Proprietary		7.58095	mg			64,999
				C	GROUP-C	organic phosphorous co	Proprietary		0.11663	mg			1,000
				C	GROUP-C	Fused Silica	60676-86-0		97.9692	mg			839,99
				C	GROUP-C	Bismuth compounds	Proprietary		0.11663	mg			1,000