



# 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	2012-04-10					
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
M21012G-12	M21012G-12	10QFN 72	2011-01-18	B	Amkor, Korea	324.83	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
Matte Tin	Cu Alloy	3	260 C	40 seconds	3
Comments					
N/A					

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Locked

## 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
											-	+	
M21012G-12	Mold compound	88.57	mg	C	GROUP-C	Epoxy Resins	Proprietary		7.9713	mg			89,999
				C	GROUP-C	Silica vitreous	60676-86-0		74.3988	mg			839,99
				C	GROUP-C	Phenol Resin	Proprietary		5.75705	mg			64,999
				C	GROUP-C	Bismuth and its compou	Proprietary		0.08857	mg			1,000
				C	GROUP-C	Carbon Black	1333-86-4		0.35428	mg			4,000
Leadfinish		9.17	mg	C	GROUP-C	Tin	7440-31-5		9.17	mg			999,99
Leadframe		199.53	mg	C	GROUP-C	Zinc	7440-66-6		0.2594	mg			1,300.0
				C	GROUP-C	Iron	7439-89-6		4.6885	mg			23,497
				C	GROUP-C	Phosphorous	7723-14-0		0.1796	mg			900.11
				C	GROUP-C	Copper	7440-50-8		194.4025	mg			974,30
Die		17.06	mg	C	GROUP-C	Silicon Die	7440-21-3		17.06	mg			999,99
Leadframe Platin		2.36	mg	C	GROUP-C	Silver	7440-22-4		2.36	mg			999,99
Die Attach		2.81	mg	C	GROUP-C	Epoxy Resin A	Proprietary		0.1967	mg			69,999
				C	GROUP-C	Silver	7440-22-4		2.1637	mg			769,99
				C	GROUP-C	Bisphenol F type liquid	9003-36-5		0.1124	mg			39,999
				C	GROUP-C	2,6-diglycidyl phenyl alk	Proprietary		0.1124	mg			39,999
				C	GROUP-C	Poly[oxy(methyl- 1,2-eth	9046-10-0		0.1124	mg			39,999
				C	GROUP-C	gamma-Butyrolactone	96-48-0		0.1124	mg			39,999
Gold Wire		5.33	mg	C	GROUP-C	Gold	7440-57-5		5.33	mg			999,99