



# 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	2012-05-22					
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
M21450G-14	M21450G-14	6QFN 40	2010-10-27	D	ASE, Malaysia	93.39	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 (Sn) - annealed	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
											-	+	
M21450G-14	Leadframe	44	mg	C	GROUP-C	Iron	7439-89-6		0.9086	mg			20,649
				C	GROUP-C	Phosphorus	7723-14-0		0.00748	mg			170
				C	GROUP-C	Zinc	7440-66-6		0.044	mg			1,000
				C	GROUP-C	Silver	7440-22-4		0.06688	mg			1,520
				C	GROUP-C	Copper	7440-50-8		42.9572	mg			976,29
				A	Lead/Lead Compound	Lead	7439-92-1		0.01672	mg			380
Die		4.348	mg	C	GROUP-C	Silicon Die	7440-21-3		4.348	mg			999,99
Mold compound		39.127	mg	C	GROUP-C	Epoxy Resin-1	Proprietary		1.271643	mg			32,500
				C	GROUP-C	Others	Proprietary		0.782549	mg			20,000
				C	GROUP-C	Epoxy Resin-2	Proprietary		1.173824	mg			30,000
				C	GROUP-C	Phenol Resin	Proprietary		1.760737	mg			45,000
				C	GROUP-C	Carbon black	Proprietary		0.078254	mg			2,000.0
				C	GROUP-C	Silica	1333-86-4		34.06048	mg			870,51
Die Attach		0.67	mg	C	GROUP-C	Epoxy silane	2530-83-8		0.008368	mg			12,490
				C	GROUP-C	t-Butyl phenyl glycidyl eth	3101-60-8		0.043518	mg			64,952
				C	GROUP-C	Silver	7440-22-4		0.515525	mg			769,44
				C	GROUP-C	Epoxy resin	9003-36-5		0.083689	mg			124,90
				C	GROUP-C	Phenolic resin	9003-35-4		0.018411	mg			27,480
Bond Wire		1.455	mg	C	GROUP-C	Gold	7440-57-5		1.455	mg			999,99
Leadfinish		3.794	mg	C	GROUP-C	Tin	7440-31-5		3.794	mg			999,99