ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	terial Compo pyright 2005. IPC, Bannoci nternational and Pan-Americ	kburn, Illinois	. All rights reserv	tion with lo		parts, the	declaration	n encomp		er level mate	erials for	which th	e item is an assembly ie manufacturer has eclaration.
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x						Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneous Mate					/laterials	and Mfg Informat	
Supplier Information														
Company Name *		Company Unique ID		Unique ID Au	uthority	Resp	onse Date	e *	R	esponse Doc	ument ID			
Mindspeed Technologies	s, Inc					2012	12-13							
Contact Name * Title - Contact				Phone - Contact *			Email - Contact *							
Cynthia Ong	Cynthia Ong Program Manager			949-579-5515			cynthia.ong@mindspeed.com							
Authorized Representative * Title - Representative			9	Phone - Representative *			Email - Representative *			Supplier Comments or URL for Additional Information				
Amy Teng		Quality Engineer		604-6328114	ļ	amy.	teng@mir	ndspeed	.com					
Requester Item Numbe	r	Mfr Item Number		Mfr Item Name)	Effect	ive Date	Version	Manufact	uring Site	Weight *	UC	M	Unit Type
M21036G-12		M21036G-12		23 HFCBGA 480		2012-	05-07	Α	ASEK	SEK) mg	1	EACH
Alternate Recommenda	ation			NA			Alternate	Alternate Item Comments NA			<u> </u>			
Manufacturing Proces	ss In	formation						1						
Terminal Plating / Grid Array	Materi	al	Terminal B	ase Alloy	J-STD-020 MS	L Rating	Peak Prod	cess Body	Temperat	ıre Max Time	at Peak Tem	perature	Number	of Reflow Cycles
SAC NA			NA	3					245 C		40 seconds 3		3	
Comments			<u> </u>		L		1							
NA														

Save the fields in this form to a file Export Data Import fields from a file into this form		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, Hexaval 2002/95/EC Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Ca		rominated Biphenyls (PBB),
upplier 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 at 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 the upplier 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 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 ritten 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 emedies for issues that arise regarding information the Supplier provides in this form.	nat implement the RoHS Direct applier has not independently von in this paragraph. If the Com	ive. Company acknowledges that erified information provided by others, npany and the Supplier enter into a
RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions	Supplier Acceptance *	Accepted
exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then sel bove and choose all applicable exemptions.	lect the corresponding re	esponse in the RoHS Declaration
Exemption List Version EL-2006/690/EC		
15. Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.		
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
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Homogeneous Material Composition Declaration for Electronic Products

Subltem 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	Homogeneous	Weight	Unit of	Level	Substance Category	Substance	CAS	Evennt	Weight	Waight	• • • • • • • • • • • • • • • • • • • •	Tolerance		PPM
Name	Material	weight	Measure	Levei	Substance Category	Substance	CAS	Exempt	weight	Measure	-	+	PPIVI	
M21036G-12	Bump	5.15	mg	С	GROUP-C	Pb	7440-31-5		1.905602	mg			370,0	
				A	Lead/Lead Compound	Sn	7439-92-1		3.244674	mg			630,	
	Solder ball	422	mg	С	GROUP-C	Ag	7440-22-4		12.66	mg			29,9	
				С	GROUP-C	Cu	7440-50-8		2.11	mg			5,00	
				С	GROUP-C	Sn	7440-31-5		407.23	mg			964,	
	Underfill	24	mg	С	GROUP-C	Additives	Trade Secret		1.2	mg			49,9	
				С	GROUP-C	Silicon dioxide	60676-86-0		11.04	mg			459,	
				С	GROUP-C	Carbon black	1333-86-4		0.24	mg			9,99	
				С	GROUP-C	Bisphenol F type liquid	9003-36-5		4.8	mg			199,	
				С	GROUP-C	Amine type accelerator	Trade Secret		1.2	mg			49,9	
				С	GROUP-C	Phenolic resin	9003-35-4		4.8	mg			199,	
				С	GROUP-C	Bisphenol A type liquid	25068-38-6		0.72	mg			29,9	
	Die	358	mg	С	GROUP-C	Silicon	7440-21-3		358	mg			999,	
	Heatslug	4,934	mg	С	GROUP-C	Chrome	Trade Secret		2.467	mg			500	
				С	GROUP-C	Copper	7440-50-8		4,901.92	mg			993,	
				В	Nickel/Nickel Compou	Nickel	7440-02-0		29.604	mg			4,09	
	Thermally condu	95	mg	С	GROUP-C	Alumina	01344-28-1		85.5	mg			899,	
				С	GROUP-C	Others	Trade Secret		9.5	mg			99,9	
	Substrate	1,394.34	lmg	С	GROUP-C	Others	Proprietary		76.62682	mg			54,9	
				С	GROUP-C	others	Proprietary		19.49192	mg			13,9	
				С	GROUP-C	organic material	Proprietary		2.887459	mg			2,07	
				С	GROUP-C	Tin	7440-31-5		0.313003	mg			224	
				С	GROUP-C	Bisphenol A epoxy resir	25068-38-6		8.301000	mg			5,95	

С	GROUP-C	Dipropylene glycol mon	34590-94-8	3.389899	mg	2,431.1
С	GROUP-C	Barium Sulfate	7727-43-7	10.16969	mg	7,293.5
С	GROUP-C	Solvent naphtha(petrole	64742-94-5	4.661111	mg	3,342.8
С	GROUP-C	Continuous Filament Fil	65997-17-3	380.0142	mg	272,53
С	GROUP-C	N,N-Dimethylformamide	68-12-2	0.858724	mg	615.85
С	GROUP-C	Toluene	108-88-3	4.675276	mg	3,353.0
С	GROUP-C	Silica,amorphous	7631-86-9	0.423737	mg	303.89
С	GROUP-C	Bisphenol A epoxy resir	25068-38-6	5.389924	mg	3,865.5
С	GROUP-C	Naphthalene	91-20-3	0.847474	mg	607.79
С	GROUP-C	Copper foil	7440-50-8	138.1869	mg	99,104
С	GROUP-C	other epoxy resin	Proprietary	1.347481	mg	966.38
С	GROUP-C	copper	7440-50-8	373.3401	mg	267,75
С	GROUP-C	Moroholine derivative	Trade secret	1.694949	mg	1,215.5
С	GROUP-C	Talc containing no asbe	14807-96-6	1.694949	mg	1,215.5
С	GROUP-C	Coal tar naphtha	64742-94-5	0.276700	mg	198.44
С	GROUP-C	Inorganic filler	Proprietary	198.6437	mg	142,46
С	GROUP-C	methyl octanoate	67762-90-7	9.624864	mg	6,902.7
С	GROUP-C	Cyclohexanone	108-94-1	4.675276	mg	3,353.0
С	GROUP-C	Epoxy Resin	Proprietary	146.8236	mg	105,29