ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®	© Co	pyright 2005. IPC, Bannor nternational and Pan-Amer	kburn, Illinoi:	s. All rights reserv	tion with lov		parts, the	declarati	on enco		wer level mate	erials for	which t	e item is an assembly he manufacturer has declaration.	
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x									ration Class * 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa					
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	Ithority	Resp	onse Dat	:e *		Response Do	cument ID				
Mindspeed Techologies	Inc	N/A		N/A		2013	-03-22								
Contact Name * Title - Contact				Phone - Contact *			I - Contac	ct *							
Cynthia Ong Program Manager				949-579-5515			cynthia.ong@mindspeed.com								
Authorized Representati	ve *	Title - Representativ	е	Phone - Representative *			Email - Representative *			Supplier Comments or URL for Additional Information					
Amy Teng		Quality Engineer		604-6328114	Ļ	amy.	teng@mi	ndspeed	d.com						
Requester Item Numbe	r	Mfr Item Number		Mfr Item Name	•	Effect	ive Date	Version	Manuf	acturing Site	Weight *	UC	DM	Unit Type	
M21161G-15		M21161G-15		35FCBGA 11	56	2010-	·10-27	E	ASE,	Taiwan	19,242.22	mg	3	EACH	
Alternate Recommend	ation			NA				Alternat	Alternate Item Comments NA						
Manufacturing Proces	ss In	formation													
Terminal Plating / Grid Array	Mater	ial	Terminal E	Base Alloy	J-STD-020 MSL	Rating	Peak Pro	cess Bod	y Tempe	erature Max Tim	e at Peak Tem	perature	Number	of Reflow Cycles	
SAC 305 N/A			5			245		2 40 secor		conds	ds 3				
Comments			ļ		1		!								
N/A															

Save the fields in this form to a fileExport DataImport fields from a file into this formImport Data	Locked
RoHS Material Composition Declaration Declaration Declaration	on Type * Simplified
RoHS Directive 2002/95/ECRoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, 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 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 Ro 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 such information. However, in situations where Supplier has not independently 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. I 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 s remedies for issues that arise regarding information the Supplier provides in this form.	DHS Directive. Company acknowledges that endently verified information provided by others, If the Company 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 Accepta	ance * Accepted
Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the correspondence and choose all applicable exemptions.	onding response 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 declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.	play the signature area. Digitally sign

Supplier Digital Signature	

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 Name	Homogeneous Material	Weight	Unit of Measure	Level	Substance Category	Substance	CAS	Exempt	Weight	Unit of Measure	Tolera	ance +	PPM
M21161G-15	Substrate	8,850.33	mg			Barium oxide	108-94-1		13.71	mg			712.49
				с	GROUP-C	Phosphorous	26265-08-7		482.96	mg			54,569
						Calcium oxide	68-12-2		2.74	mg			142.39
				с	GROUP-C	Strontium oxide	64742-94-5		2.74	mg			309.59
				A	Lead/Lead Compound	Boron oxide	7439-92-1		1.89	mg			213.55
				с	GROUP-C	Thallium	Trade Secret		21.66	mg			2,447.3
				с	GROUP-C	Chromium oxide	25068-38-6		53.15	mg			6,005.4
				с	GROUP-C	Copper oxide	Trade Secret		5	mg			564.95
				с	GROUP-C	Zirconium oxide	Trade Secret		219.44	mg			24,794
				с	GROUP-C	Silicon dioxide	7440-50-8		1,199.02	mg			135,47
				с	GROUP-C	Aluminum oxide	7440-31-5		3.22	mg			363.82
				с	GROUP-C	Palladium	67762-90-7		3.75	mg			423.71
				с	GROUP-C	Nickel	65997-17-3		643.95	mg			72,759
				с	GROUP-C	Gold	Trade Secret		0.68	mg			76.833
				с	GROUP-C	Copper	Trade Secret		3.75	mg			423.71
	Die	386.83	mg	с	GROUP-C	Silicon	7440-21-3		386.83	mg			999,99
	Thermally condu	75	mg	с	GROUP-C	Allylether	Trade Secret		2.25	mg			29,999
				с	GROUP-C	Polymer Resin	Trade Secret		20.625	mg			274,99
				с	GROUP-C	Inorganic Compounds	Trade Secret		33.75	mg			449,99
				с	GROUP-C	Other	Trade Secret		18.375	mg			244,99
	Ink	0.5	mg	с	GROUP-C	Formaldehyde	50-00-0		0.065	mg			129,99
				с	GROUP-C	Isobutyl alcohol	78-83-1		0.015	mg			29,999
				с	GROUP-C	Triethyl phosphate trieth	78-40-0		0.065	mg			129,99

			с	GROUP-C	Phenol	108-92-5	0.015	mg	29,999
			с	GROUP-C	Carbon black	1333-86-4	0.3	mg	599,99
			с	GROUP-C	Propylene glycol monon	108-65-6	0.04	mg	79,999
Ball mount flux	2	mg	с	GROUP-C	Bara Terpineol	8000-41-7	0.66	mg	329,99
			с	GROUP-C	Anime surfactant	61790-85-0	0.78	mg	389,99
			с	GROUP-C	Nomionic surfactant	68439-49-6	0.56	mg	279,99
Solder Ball	1,017.78	mg	с	GROUP-C	Ag	7440-22-4	40.7112	mg	40,000
			с	GROUP-C	Sn	7440-31-5	971.9799	mg	954,99
			с	GROUP-C	Cu	7440-50-8	5.0889	mg	5,000
Heatslug	5,395.96	mg	в	Nickel/Nickel Compou	Nickel	7440-02-0	32.37576	mg	1,682.5
			с	GROUP-C	Copper	7440-50-8	5,360.88	amg	993,49
			с	GROUP-C	Chrome	Trade Secret	2.69798	mg	500
Stiffener ring	3,178.73	mg	с	GROUP-C	Chrome	Trade Secret	1.589365	mg	500
			с	GROUP-C	Copper	7440-50-8	3,158.06	Bmg	993,49
			в	Nickel/Nickel Compou	Nickel	7440-02-0	19.07238	mg	991.17
Flux	1	mg	с	GROUP-C	Triethanolamine	102-71-6	0.0505	mg	50,499
			с	GROUP-C	Diethanolamine	111-42-2	0.0505	mg	50,499
			с	GROUP-C	Modified rosin	65997-05-9	0.724	mg	723,99
			с	GROUP-C	Distillates, petroleum, st	64741-44-2	0.175	mg	174,99
Bump	172.09	mg	A	Lead/Lead Compound	Pb	7439-92-1	165.5254	mg	961,85
			с	GROUP-C	Sn	7440-31-5	6.5646	mg	38,146
ТІМ	120	mg	с	GROUP-C	Zinc Oxide	1314-13-2	42	mg	349,99
			с	GROUP-C	Resin	Trade Secret	78	mg	649,99
Underfill	42	mg	с	GROUP-C	Carbon black	1333-86-4	0.42	mg	9,999.9
			с	GROUP-C	Additives	Trade Secret	0.84	mg	19,999
			с	GROUP-C	1,6-Bis(2,3-epoxypropox	27610-48-6	8.4	mg	199,99
			с	GROUP-C	Phenolic resin	9003-35-4	0.84	mg	19,999
			с	GROUP-C	Silicon dioxide	60676-86-0	21	mg	499,99
			с	GROUP-C	Amine type accelerator	Trade Secret	0.84	mg	19,999
			с	GROUP-C	Bisphenol A type liquid	25068-38-6	1.26	mg	29,999
			с	GROUP-C	Organic acid anhydride	Trade Secret	8.4	mg	199,99