ADDROUTION COMMITTEE	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	parts, the	declaration	n encompa	sses all low		erials for	which th	item is an assembly e manufacturer has eclaration.		
1/32-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x										eclaration Class * ass 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informa					
Supplier Information																
Company Name *		Company Unique ID		Unique ID Au	ıthority	Resp	onse Date	e *	Re	sponse Doc	ument ID					
Mindspeed Technologies	s Inc	N/A		N/A		2012-	06-18									
Contact Name * Title - Contact				Phone - Contact *			Email - Contact *									
Cynthia Ong		Program Manager		949-579-5515			cynthia.ong@mindspeed.com									
Authorized Representati	Authorized Representative * Title - Representative			Phone - Representative *		Email - Representative *			* Su	Supplier Comments or URL for Additional Information						
Amy Teng		Quality Engineer		604-6328114	ļ.	amy.t	eng@mir	dspeed.	com							
Requester Item Number	r	Mfr Item Number		Mfr Item Name)	Effectiv	ve Date	Version	Manufactu	ring Site	Weight *	UC	DM	Unit Type		
M21048G-12		M21048G-12		27HFCBGA 6	372	2012-	05-07	Α	ASE, Taiv	van	5,356.45	mg	1	EACH		
Alternate Recommenda	ation			NA				Alternate Item Co								
Manufacturing Proces	ss In	formation														
Terminal Plating / Grid Array	Materi	al	Terminal B	ase Alloy	J-STD-020 MSL R	ating	Peak Prod	ess Body	Temperatu	re Max Time	at Peak Tem	perature	Number o	of Reflow Cycles		
SAC 305 N/A					3			245 C			C 40 seconds 3					
Comments			!				!									
N/A																

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	O O.	Tolera	ance	PPM
Name	Material	weight	Measure	Level	Substance Category		Substance	CAS	Exempt	weight	Measure	-	+	FFIV
M21048G-12	Thermally condu	150	mg	С	GROUP-C		Others	Trade Secret		15	mg			99,9
				С	GROUP-C		Alumina	01344-28-1		135	mg			899,
	Mold compound	24	mg	С	GROUP-C		Amine type accelerator	Trade Secret		1.2	mg			49,9
				С	GROUP-C		Carbon black	1333-86-4		0.24	mg			9,99
				С	GROUP-C		Additives	Trade Secret		1.2	mg			49,9
				С	GROUP-C		Bisphenol F type liquid	9 003-36-5		4.8	mg			199,
				С	GROUP-C		Phenolic resin	9003-35-4		4.8	mg			199,
				С	GROUP-C		Silicon dioxide	60676-86-0		11.04	mg			459,
				С	GROUP-C		Bisphenol A type liquid	25068-38-6		0.72	mg			29,9
	Solder Ball	590	mg	С	GROUP-C		Sn	7440-31-5		569.35	mg			964,
				С	GROUP-C		Ag	7440-22-4		17.7	mg			29,9
				С	GROUP-C		Cu	7440-50-8		2.95	mg			5,00
	Heatslug	4,007.5	mg	В	Nickel/Nickel Compou		Nickel	7440-02-0		24.05	mg			4,48
				С	GROUP-C		Copper	7440-50-8		3,981.45	mg			993,
				С	GROUP-C		Chrome	Proprietary		2	mg			499.
	Substrate	226.42	mg	С	GROUP-C		Amine compounds	Trade secret		0.03	mg			132.
				С	GROUP-C		Dipropylene glycol mon	34590-94-8		0.39	mg			1,72
				С	GROUP-C		Glass Cloth	65997-17-3		29.16	mg			128
				С	GROUP-C		Antifoamer Leveling ag	Trade secret		0.07	mg			309.
				С	GROUP-C		Coal tar naphtha	64742-94-5		2.3	mg			10,1
				С	GROUP-C		Thermosetting Resin an	Proprietary		34.99	mg			154
				С	GROUP-C		Silica	7631-86-9		10.67	mg			47,1
				С	GROUP-C	•	Dipropylene glycol mon	88917-22-0		0.07	mg			309

				С	GROUP-C	other epoxy resin	Proprietary	0.19	mg	839.14
				С	GROUP-C	Vehichle	Trade secret	0.04	mg	176.66
				С	GROUP-C	N,N-Dimethylformamide	68-12-2	0.32	mg	1,413.3
				С	GROUP-C	Organic pigment	Trade secret	0.01	mg	44.165
				С	GROUP-C	Diethylene glycol mono	£112-15-2	0.54	mg	2,384.9
				С	GROUP-C	organic material	Proprietary	0.38	mg	1,678.2
				С	GROUP-C	Cyclohexanone	108-94-1	1.61	mg	7,110.0
				С	GROUP-C	Acrylate resin	Trade secret	2.09	mg	9,230.0
				С	GROUP-C	Cu	7440-50-8	120.93	mg	534,09
				С	GROUP-C	Talc	14807-96-6	0.54	mg	2,384.9
				С	GROUP-C	methyl octanoate	67762-90-7	1.28	mg	5,653.2
				С	GROUP-C	Barium sulfate	7727-43-7	0.54	mg	2,384.9
				С	GROUP-C	Phthalocyanine blue	147-14-8	0.01	mg	44.165
				С	GROUP-C	Toluene	108-88-3	0.1	mg	441.65
				С	GROUP-C	Others	Proprietary	16.11	mg	71,150
				С	GROUP-C	Tin	7440-31-5	0.34	mg	1,501.0
				С	GROUP-C	Bisphenol A epoxy resir	25068-38-6	3.51	mg	15,502
				С	GROUP-C	Aromatic carbonyl com	Trade secret	0.2	mg	883.31
Die	358	mg		С	GROUP-C	Silicon Die	7440-21-3	358	mg	999,99
Bump	0.53	mg		С	GROUP-C	Sn	7440-31-5	0.25	mg	471,69
	'	<u>'</u>	_	A	Lead/Lead Compound	Pb	7439-92-1	0.28	mg	528,30