

PART INFORMATION	
Mfg Item Number	MCIMX514AJM6CR2
Mfg Item Name	MABGAPGE 529 19SQ0.8P0.8
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2015-07-31
Response Document ID	5380K11283D011A1.20
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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Authorized Representative	Daniel Binyon
Representative Title	EPP Customer Response
Representative Phone	512-895-3406
Representative Email	eppanlst@freescale.com
URL for Additional Information	www.freescale.com
DECLARATION	
EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e1
EU RoHS Exemption(s)	
MANUFACTURING	
Mfg Item Number	MCIMX514AJM6CR2
Mfg Item Name	MABGAPGE 529 19SQ0.8P0.8
Version	ALL
Weight	1.016000
UoM	g
Unit Volume	EACH
J-STD-020 MSL Rating	3
Peak Processing Temperature	260 C
Max Time at Peak Temperature	40 seconds
Number of Processing Cycles	3

RoHS	
RoHS Directive	2011/65/EU
RoHS Definition	RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) of 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 of Cadmium
RoHS Legal Definition	Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part(s) identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a RoHS restricted substance) in excess of the applicable quantity limit identified below. If a homogeneous material within the part(s) contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form 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(s), 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(s), 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 Suppliers liability and the Companys remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Suppliers Standard Terms and Conditions of Sale applicable to such part(s) shall apply.
RoHS Declaration	1 - Item(s) do not contain RoHS restricted substances per the definition above
Supplier Acceptance	Accepted
Signature	Daniel Binyon
Exemption List Version	2012/51/EU
List of Freescale Accepted Exemptions	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight 6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight 6(c) : Copper alloy containing up to 4% lead by weight 7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead) 7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications 7(c)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound 7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher 7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC 7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors 15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%		ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0023						g					
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0001725	g	75000	7.5		169	0.0169
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00046	g	200000	20		452	0.0452
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0001725	g	75000	7.5		169	0.0169
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00046	g	200000	20		452	0.0452
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.001035	g	450000	45		1018	0.1018
Solder Balls - Lead Free	0.1361						g					
Solder Balls - Lead Free		Metals	Aluminum, metal	7429-90-5		0.00000068	g	5	0.0005		0	0
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00001102	g	81	0.0081		10	0.001
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000517	g	38	0.0038		5	0.0005
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000531	g	39	0.0039		5	0.0005
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00089112	g	5078	0.5078		680	0.068
Solder Balls - Lead Free		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00000544	g	40	0.004		5	0.0005
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000463	g	34	0.0034		4	0.0004
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00003049	g	224	0.0224		30	0.003
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000531	g	39	0.0039		5	0.0005
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00122885	g	9029	0.9029		1209	0.1209
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.13410204	g	985320	98.532		131990	13.199
Solder Balls - Lead Free		Metals	Zinc, metal	7440-66-6		0.00000082	g	6	0.0006		0	0
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000912	g	67	0.0067		8	0.0008
Die Encapsulant, Halogen-free	0.4857						g					
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.029142	g	60000	6		28683	2.8683
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.004857	g	10000	1		4780	0.478
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.009714	g	20000	2		9561	0.9561
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.024285	g	50000	5		23902	2.3902
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.417702	g	860000	86		411142	41.1142
Bonding Wire, PdCu	0.0064						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.00632319	g	987998	98.7998		6223	0.6223
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00007681	g	12002	1.2002		75	0.0075
Silicon Semiconductor Die	0.025						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0005	g	20000	2		492	0.0492
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.0245	g	980000	98		24114	2.4114
Organic Substrate	0.3605						g					
Organic Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (99/1)	68891-46-3		0.00217778	g	6041	0.6041		2143	0.2143
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.02021215	g	56067	5.6067		19893	1.9893
Organic Substrate		Metals	Copper, metal	7440-50-8		0.09569699	g	265456	26.5456		94189	9.4189
Organic Substrate		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl diglycidyl ether	85954-11-6		0.01158755	g	32143	3.2143		11405	1.1405
Organic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epkote 155	9003-36-5		0.09855206	g	273376	27.3376		97000	9.7
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00114747	g	3183	0.3183		1129	0.1129
Organic Substrate		Solvents, additives, and other materials	Silicon	7440-21-3		0.000261	g	724	0.0724		256	0.0256
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.01164163	g	32293	3.2293		11458	1.1458
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.09361067	g	259669	25.9669		92136	9.2136
Organic Substrate		Plastics/polymers	Other acrylic resins	-		0.01536775	g	42629	4.2629		15125	1.5125
Organic Substrate		Plastics/polymers	Other acrylic/epoxy resin mixture	-		0.01024505	g	28419	2.8419		10083	1.0083

LINKS	
MCD LINK	
Freescal website	http://www.freescal.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.freescal.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescal_Response.pdf
China RoHS	http://www.freescal.com/chinarohs
REACH signed letter	http://www.freescal.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescal_Response.pdf
ELV signed letter	http://www.freescal.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescal_Reponse.pdf
Conflict Minerals statement	http://www.freescal.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescal_Response.pdf
FREESCALE ENVIRONMENTAL INFORMATION	
EPP website	http://www.freescal.com/epp
FAQ	http://www.freescal.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQ
Technical Service Request	https://www.freescal.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.freescal.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MCIMX514AJM6CR2_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX514AJM6CR2_IPC1752A.xml