

PART INFORMATION

Mfg Item Number	MCIMX512DJM8C
Mfg Item Name	MABGAPGE 529 19SQ0.8P0.8

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-08-09
Response Document ID	5380A1.14
Contact Name	Freescale Semiconductor Inc
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DECLARATION

EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e1
EU RoHS Exemption(s)	

MANUFACTURING

Mfg Item Number	MCIMX512DJM8C
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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>

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		0.0000136	g	10	0.001	1	0.0001
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00006805	g	500	0.05	66	0.0066
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00004083	g	300	0.03	40	0.004
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00004083	g	300	0.03	40	0.004
Solder Balls - Lead Free		Cadmium/Cadmium Compounds	Cadmium	7440-43-9		0.00000272	g	20	0.002	2	0.0002
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0006805	g	5000	0.5	669	0.0669
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00002722	g	200	0.02	26	0.0026
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00006805	g	500	0.05	66	0.0066
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.001361	g	10000	1	1339	0.1339
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.13380809	g	983160	98.316	131700	13.17
Solder Balls - Lead Free		Metals	Zinc, metal	7440-66-6		0.0000136	g	10	0.001	1	0.0001
Bonding Wire	0.0064						g				
Bonding Wire		Metals	Gold, metal	7440-57-5		0.0064	g	1000000	100	6299	0.6299
Organic Substrate, Halogen-free	0.3605						g				
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7		0.02243788	g	62241	6.2241	22084	2.2084
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8		0.10470939	g	290456	29.0456	103060	10.306
Organic Substrate, Halogen-free		Metals	Gold, metal	7440-57-5		0.00299179	g	8299	0.8299	2944	0.2944
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.03178673	g	88174	8.8174	31286	3.1286
Organic Substrate, Halogen-free		Nickel (external applications only)	Nickel	7440-02-0		0.01570662	g	43569	4.3569	15459	1.5459
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3		0.08227187	g	228216	22.8216	80976	8.0976
Organic Substrate, Halogen-free		Plastics/polymers	Proprietary Material-Other acrylic/epoxy resin mixture	-		0.08601133	g	238589	23.8589	84656	8.4656
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Other morpholine compounds	-		0.00037384	g	1037	0.1037	367	0.0367
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Talc (containing no asbestos fibers)	14807-96-9		0.00299179	g	8299	0.8299	2944	0.2944
Organic Substrate, Halogen-free		Plastics/polymers	Proprietary Material-Other Non-halogenated Epoxy resins	-		0.01121876	g	31120	3.112	11042	1.1042
Die Encapsulant	0.4857						g				
Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.00971886	g	20010	2.001	9565	0.9565
Die Encapsulant		Metals	Magnesium, metal	7439-95-4		0.00485943	g	10005	1.0005	4782	0.4782
Die Encapsulant		Plastics/polymers	Other phenolic resins	-		0.01457829	g	30015	3.0015	14348	1.4348
Die Encapsulant		Glass	Silicon dioxide	7631-86-9		0.08746971	g	180090	18.009	86092	8.6092
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.33991714	g	699850	69.985	334583	33.4583
Die Encapsulant		Plastics/polymers	Other acrylic/epoxy resin mixture	-		0.02915657	g	60030	6.003	28697	2.8697
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

LINKS

MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcdfs/MCIMX512DJM8C_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MCIMX512DJM8C_IPC1752A.xml