

PART INFORMATION

Mfg Item Number	MCIMX6V2CVM08AB
Mfg Item Name	MAPBGA 400 14S*1.3 P.65

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-04-14
Response Document ID	00L5A1.6
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	MCIMX6V2CVM08AB
Mfg Item Name	MAPBGA 400 14S*1.3 P.65
Version	ALL
Weight	0.430400
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. piezoelectric 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	0.0011						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000825	g	75000	7.5	191	0.0191
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00022	g	200000	20	511	0.0511
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0000825	g	75000	7.5	191	0.0191
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00022	g	200000	20	511	0.0511
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000495	g	450000	45	1150	0.115
Solder Balls - Lead Free	0.0418						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.0000272	g	65	0.0065	6	0.0006
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.0000134	g	32	0.0032	3	0.0003
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.0000105	g	25	0.0025	2	0.0002
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00019767	g	4729	0.4729	459	0.0459
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.0000138	g	33	0.0033	3	0.0003
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00001124	g	269	0.0269	26	0.0026
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000146	g	35	0.0035	3	0.0003
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00038782	g	9278	0.9278	901	0.0901
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.04119264	g	985470	98.547	95707	9.5707
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000269	g	64	0.0064	6	0.0006
Die Encapsulant, Halogen-free	0.2744						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.016464	g	60000	6	38252	3.8252
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.002744	g	10000	1	6375	0.6375
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.005488	g	20000	2	12750	1.275
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.01372	g	50000	5	31877	3.1877
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.235984	g	860000	86	548310	54.831
Bonding Wire, PtCu	0.0038						g				
Bonding Wire, PtCu		Metals	Copper, metal	7440-50-8		0.0037278	g	981000	98.1	8661	0.8661
Bonding Wire, PtCu		Metals	Gold, metal	7440-57-5		0.0000038	g	1000	0.1	8	0.0008
Bonding Wire, PtCu		Metals	Palladium, metal	7440-05-3		0.0000684	g	18000	1.8	158	0.0158
Organic Substrate, Halogen-free	0.0954						g				
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Other aromatic amines and their salts	-		0.00002156	g	226	0.0226	50	0.005
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7		0.00072571	g	7607	0.7607	1686	0.1686
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8		0.04075479	g	427199	42.7199	94690	9.469
Organic Substrate, Halogen-free		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00153937	g	16136	1.6136	3576	0.3576
Organic Substrate, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.00293746	g	30791	3.0791	6824	0.6824
Organic Substrate, Halogen-free		Metals	Gold, metal	7440-57-5		0.00214774	g	22513	2.2513	4990	0.499
Organic Substrate, Halogen-free		Metals	Talc	14807-96-6		0.00036548	g	3831	0.3831	849	0.0849
Organic Substrate, Halogen-free		Nickel (external applications only)	Nickel	7440-02-0		0.01676054	g	175687	17.5687	38941	3.8941
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3		0.017647	g	184979	18.4979	41001	4.1001
Organic Substrate, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.00232375	g	24358	2.4358	5399	0.5399
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Other Aromatic carbonyl compounds	-		0.0013595	g	1425	0.1425	315	0.0315
Organic Substrate, Halogen-free		Plastics/polymers	Triazine	25722-66-1		0.00153937	g	16136	1.6136	3576	0.3576
Organic Substrate, Halogen-free		Metals	Aluminum Hydroxide	21645-51-2		0.00383537	g	40203	4.0203	8911	0.8911
Organic Substrate, Halogen-free		Metals	Copper phthalocyanine	147-14-8		0.00000639	g	67	0.0067	14	0.0014
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Quinacridone pigment	1047-16-1		0.00000639	g	67	0.0067	14	0.0014
Organic Substrate, Halogen-free		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9		0.00079583	g	8342	0.8342	1849	0.1849
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Bis(3-ethyl-5-methyl-4-maleimidophenyl)methane	105391-33-1		0.00153937	g	16136	1.6136	3576	0.3576
Organic Substrate, Halogen-free		Plastics/polymers	Epoxy Resin	115254-47-2		0.00231154	g	24230	2.423	5370	0.537
Organic Substrate, Halogen-free		Solvents, additives, and other materials	1,2,4-Trimethylbenzene	95-63-6		0.00000639	g	67	0.0067	14	0.0014
Silicon Semiconductor Die	0.0139						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000278	g	20000	2	645	0.0645
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.013622	g	980000	98	31649	3.1649

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/MCIMX6V2CVM08AB_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MCIMX6V2CVM08AB_IPC1752A.xml