

PART INFORMATION		
Mfg Item Number	MCIMX257CJM4AR2	
Mfg Item Name	MAPBGA 400 17*17*0.8P0.8	
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2015-07-31	
Response Document ID	5284K10971D038A1.19	
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	
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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	MCIMX257CJM4AR2	
Mfg Item Name	MAPBGA 400 17*17*0.8P0.8	
Version	ALL	
Weight	0.838700	
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	0.0043						g					
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0003225	g	75000	7.5		384	0.0384
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00086	g	200000	20		1025	0.1025
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0003225	g	75000	7.5		384	0.0384
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00086	g	200000	20		1025	0.1025
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.001935	g	450000	45		2307	0.2307
Solder Balls - Lead Free	0.1034						g					
Solder Balls - Lead Free		Metals	Aluminum, metal	7429-90-5		0.00000052	g	5	0.0005		0	0
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000838	g	81	0.0081		9	0.0009
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000393	g	38	0.0038		4	0.0004
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000403	g	39	0.0039		4	0.0004
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00052507	g	5078	0.5078		626	0.0626
Solder Balls - Lead Free		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00000414	g	40	0.004		4	0.0004
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000352	g	34	0.0034		4	0.0004
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00002316	g	224	0.0224		27	0.0027
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000403	g	39	0.0039		4	0.0004
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.0009336	g	9029	0.9029		1113	0.1113
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.10188207	g	985320	98.532		121476	12.1476
Solder Balls - Lead Free		Metals	Zinc, metal	7440-66-6		0.00000062	g	6	0.0006		0	0
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000693	g	67	0.0067		8	0.0008
Silicon Semiconductor Die	0.0335						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00067	g	20000	2		798	0.0798
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.03283	g	980000	98		39143	3.9143
Die Encapsulant, Halogen-free	0.3984						g					
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.023904	g	60000	6		28501	2.8501
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003984	g	10000	1		4750	0.475
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.007968	g	20000	2		9500	0.95
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.01992	g	50000	5		23751	2.3751
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.342624	g	860000	86		408538	40.8538
Organic Substrate	0.294						g					
Organic Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (2674)	68891-46-3		0.00043541	g	1481	0.1481		519	0.0519
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.00197245	g	6709	0.6709		2351	0.2351
Organic Substrate		Metals	Copper, metal	7440-50-8		0.00253091	g	314731	31.4731		110326	11.0326
Organic Substrate		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl diglycidyl ether	85954-11-6		0.00492274	g	16744	1.6744		5869	0.5869
Organic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.07086223	g	241028	24.1028		84490	8.449
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00109221	g	3715	0.3715		1302	0.1302
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00503593	g	17129	1.7129		6004	0.6004
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.05996012	g	203946	20.3946		71491	7.1491
Organic Substrate		Glass	Silicon dioxide	7631-86-9		0.00095403	g	3245	0.3245		1137	0.1137
Organic Substrate		Plastics/polymers	Triazine	25722-66-1		0.02543806	g	86524	8.6524		30330	3.033
Organic Substrate		Plastics/polymers	Other acrylic resins	-		0.00438207	g	14905	1.4905		5224	0.5224
Organic Substrate		Solvents, additives, and other materials	Talc (containing no asbestos fibers)	14807-96-9		0.00097608	g	3320	0.332		1163	0.1163
Organic Substrate		Solvents, additives, and other materials	Bis(3-ethyl-5-methyl-4-maleimidophenyl)methane	105391-33-1		0.02543776	g	86523	8.6523		30329	3.0329
Bonding Wire, PdCu	0.0051						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.00496227	g	972995	97.2995		5916	0.5916
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00013773	g	27005	2.7005		164	0.0164

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/MCIMX257CJM4AR2_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX257CJM4AR2_IPC1752A.xml