Freescale Semiconductor Inc

PART INFORMATION	
Mfg Item Number	MCIMX6X2AVN08AB
Mfg Item Name	MAPBGA 400 17*17*0.8P0.8

SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2016-08-13
Response Document ID	5298K50001S535A1.2
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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Contact Email	support@freescale.com
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	MCIMX6X2AVN08AB
Mfg Item Name	MAPBGA 400 17*17*0.8P0.8
Version	ALL
Weight	0.742800
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	0.0019						g					
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0001425	g	75000	7.5		191	0.0191
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00038	g	200000	20		511	0.0511
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0001425	g	75000	7.5		191	0.0191
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00038	g	200000	20		511	0.0511
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000855	g	450000	45		1151	0.1151
Die Encapsulant	0.3893						g					
Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.00778989	g	20010	2.001		10487	1.0487
Die Encapsulant		Metals	Magnesium, metal	7439-95-4		0.00389495	g	10005	1.0005		5243	0.5243
Die Encapsulant		Plastics/polymers	Other phenolic resins	-		0.01168484	g	30015	3.0015		15730	1.573
Die Encapsulant		Glass	Silicon dioxide	7631-86-9		0.07010904	g	180090	18.009		94384	9.4384
Die Encapsulant		Glass	Silica, vitreous	60676-86-0		0.2724516	g	699850	69.985		366803	36.6803
Die Encapsulant		Plastics/polymers	Other acrylic/epoxy resin mixture	-		0.02336968	g	60030	6.003		31461	3.1461
Bonding Wire, PdCu	0.0069						g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.00676886	g	980994	98.0994		9112	0.9112
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000069	g	1000	0.1		9	0.0009
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.00012424	g	18006	1.8006		167	0.0167
Solder Balls - Lead Free	0.102						g					
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00051092	g	5009	0.5009		687	0.0687
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00306551	g	30054	3.0054		4126	0.4126
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.09842357	g	964937	96.4937		132503	13.2503
Organic Substrate, Halogen-fre	0.1844						g					
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00563342	g	30550	3.055		7584	0.7584
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.07623851	g	413441	41.3441		102636	10.2636
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00563342	g	30550	3.055		7584	0.7584
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.00112668	g	6110	0.611		1516	0.1516
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.03755601	g	203666	20.3666		50560	5.056
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.02441143	g	132383	13.2383		32864	3.2864
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.00431902	g	23422	2.3422		5814	0.5814
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9		0.00507008	g	27495	2.7495		6825	0.6825
Organic Substrate, Halogen-fre		Plastics/polymers	Methacrylic acid, polymer with 2,2-bis(p-(2,3-epoxypropoxy)phenyl)propane	26875-67-2		0.02441143	g	132383	13.2383		32864	3.2864
Silicon Semiconductor Die	0.0583						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.001166	g	20000	2		1569	0.1569
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.057134	g	980000	98		76917	7.6917

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/mcds/MCIMX6X2AVN08AB_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX6X2AVN08AB_IPC1752A.xml