

PART INFORMATION	
Mfg Item Number	MCIMX6X4AVM08AB
Mfg Item Name	MAPBGA 529 19*19*1.4 P.8
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2016-08-13
Response Document ID	00H0K50001S529A1.3
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	MCIMX6X4AVM08AB
Mfg Item Name	MAPBGA 529 19*19*1.4 P.8
Version	ALL
Weight	0.936700
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	<p>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.</p>
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
<p>List of Freescale Accepted Exemptions</p> <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	Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0000825	g	75000	7.5		88	0.0088
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5	0.00022	g	200000	20		234	0.0234
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-	0.0000825	g	75000	7.5		88	0.0088
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-	0.00022	g	200000	20		234	0.0234
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.000495	g	450000	45		528	0.0528
Die Encapsulant	0.5714					g					
Die Encapsulant		Metals	Aluminum, metal	7429-90-5	0.01143371	g	20010	2,001		12206	1.2206
Die Encapsulant		Metals	Magnesium, metal	7439-95-4	0.0051686	g	10005	1,0005		6103	0.6103
Die Encapsulant		Plastics/polymers	Other phenolic resins	-	0.01715057	g	30015	3,0015		18309	1.8309
Die Encapsulant		Glass	Silicon dioxide	7631-86-8	0.10280343	g	180090	18.009		109857	10.9857
Die Encapsulant		Glass	Silica, vitreous	60676-86-0	0.39989429	g	698950	69.985		426931	42.6931
Die Encapsulant		Plastics/polymers	Other acrylic/epoxy resin mixture	-	0.03430114	g	60030	6.003		36619	3.6619
Bonding Wire, PdCu	0.0052					g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8	0.00510117	g	980994	98.0994		5445	0.5445
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5	0.0000052	g	1000	0.1		5	0.0005
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3	0.00009363	g	18006	1.8006		99	0.0099
Solder Balls - Lead Free	0.1312					g					
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8	0.00065718	g	5009	0.5009		701	0.0701
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4	0.00394308	g	30054	3.0054		4209	0.4209
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5	0.12659974	g	964937	96.4937		135155	13.5155
Organic Substrate, Halogen-fre	0.2089					g					
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7	0.00727348	g	34818	3.4818		7765	0.7765
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8	0.07936695	g	379928	37.9928		84730	8.4730
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5	0.00641783	g	30722	3.0722		6851	0.6851
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6	0.00203239	g	9729	0.9729		2169	0.2169
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0	0.04064643	g	194573	19.4573		43393	4.3393
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3	0.03208913	g	153610	15.3610		34257	3.4257
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2	0.00470631	g	22529	2.2529		5024	0.5024
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9	0.00577609	g	27650	2.765		6168	0.6168
Organic Substrate, Halogen-fre		Plastics/polymers	Methacrylic acid, polymer with 2,2-bis(p-(2,3-epoxypropoxy)phenyl)propane	26875-67-2	0.03059152	g	146441	14.6441		32658	3.2658
Silicon Semiconductor Die	0.0189					g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-	0.000378	g	20000	2		403	0.0403
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.018522	g	980000	98		19773	1.9773

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/MCIMX6X4AVM08AB_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX6X4AVM08AB_IPC1752A.xml