

PART INFORMATION	
Mfg Item Number	MCIMX6G2AVM05AB
Mfg Item Name	MAP289 14*14*1.4P.8T1.32
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-02-10
Response Document ID	00M8K00159D003A1.5
Contact Name	Freescale Semiconductor Inc
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Representative Title	EPP Customer Response
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URL for Additional Information	www.freescale.com
DECLARATION	
EU RoHS	Yes
Pb Free	Yes
HalogenFree	Yes
Plating Indicator	e2
EU RoHS Exemption(s)	
MANUFACTURING	
Mfg Item Number	MCIMX6G2AVM05AB
Mfg Item Name	MAP289 14*14*1.4P.8T1.32
Version	ALL
Weight	0.451400
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	SubPart%	ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0017	Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0001275	g	75000	7.5		282	0.0282
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5	0.00034	g	200000	20		753	0.0753
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-	0.0001275	g	75000	7.5		282	0.0282
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-	0.00034	g	200000	20		753	0.0753
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.000765	g	450000	45		1694	0.1694
Solder Balls - Pb Free, Sn/Ag	0.0744					g					
Solder Balls - Pb Free, Sn/Ag		Metals	Aluminum, metal	7429-90-5	0.00000238	g	32	0.0032		5	0.0005
Solder Balls - Pb Free, Sn/Ag		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0	0.0000093	g	125	0.0125		20	0.002
Solder Balls - Pb Free, Sn/Ag		Arsenic/Arsenic Compounds	Arsenic	7440-39-2	0.0000058	g	75	0.0075		12	0.0012
Solder Balls - Pb Free, Sn/Ag		Bismuth/Bismuth Compounds	Bismuth	7440-69-9	0.00001389	g	188	0.0188		30	0.003
Solder Balls - Pb Free, Sn/Ag		Cadmium/Cadmium Compounds	Cadmium	7440-43-9	0.0000097	g	13	0.0013		2	0.0002
Solder Balls - Pb Free, Sn/Ag		Metals	Copper, metal	7440-50-8	0.00000469	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Gold, metal	7440-57-5	0.00000469	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Indium, metal	7440-74-6	0.00000469	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Sulfur	7704-34-9	0.0000052	g	7	0.0007		1	0.0001
Solder Balls - Pb Free, Sn/Ag		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0	0.00000469	g	63	0.0063		10	0.001
Solder Balls - Pb Free, Sn/Ag		Metals	Iron, metal	7439-89-6	0.0000093	g	125	0.0125		20	0.002
Solder Balls - Pb Free, Sn/Ag		Lead/Lead Compounds	Lead	7439-92-1	0.00002329	g	313	0.0313		51	0.051
Solder Balls - Pb Free, Sn/Ag		Nickel (external applications only)	Nickel	7440-02-0	0.00000238	g	32	0.0032		6	0.0005
Solder Balls - Pb Free, Sn/Ag		Metals	Silver, metal	7440-22-4	0.00260415	g	35002	3.5002		5769	0.5769
Solder Balls - Pb Free, Sn/Ag		Metals	Tin, metal	7440-31-5	0.07170797	g	963817	96.3817		158856	15.8856
Solder Balls - Pb Free, Sn/Ag		Metals	Zinc, metal	7440-66-6	0.00000141	g	19	0.0019		3	0.0003
Die Encapsulant, Halogen-free	0.2269					g					
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-	0.013614	g	60000	6		30159	3.0159
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.002269	g	10000	1		5026	0.5026
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds	-	0.004538	g	20000	2		10053	1.0053
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-	0.011345	g	50000	5		25132	2.5132
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0	0.195134	g	860000	86		432304	43.2304
Organic Substrate	0.1393					g					
Organic Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (26/74)	68891-46-3	0.00112415	g	8070	0.807		2490	0.249
Organic Substrate		Metals	Barium sulfate	7727-43-7	0.01043064	g	74879	7.4879		23107	2.3107
Organic Substrate		Metals	Copper, metal	7440-50-8	0.05616368	g	403185	40.3185		124421	12.4421
Organic Substrate		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl diglycidyl ether	85954-11-6	0.00597973	g	42927	4.2927		13247	1.3247
Organic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.02316461	g	166293	16.6293		51317	5.1317
Organic Substrate		Metals	Gold, metal	7440-57-5	0.00063563	g	4563	0.4563		1408	0.1408
Organic Substrate		Solvents, additives, and other materials	Silicon	7440-21-3	0.00013512	g	970	0.097		299	0.0299
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0	0.00645451	g	46270	4.627		14278	1.4278
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3	0.02203041	g	157957	15.7957		48744	4.8744
Organic Substrate		Plastics/polymers	Other acrylic resins	-	0.00793105	g	56935	5.6935		17569	1.7569
Organic Substrate		Plastics/polymers	Other acrylic/epoxy resin mixture	-	0.00526657	g	37951	3.7951		11711	1.1711
Bonding Wire, PdCu	0.0014					g					
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8	0.0013734	g	981000	98.1		3042	0.3042
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5	0.0000014	g	1000	0.1		3	0.0003
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3	0.0000252	g	18000	1.8		55	0.0055
Silicon Semiconductor Die	0.0077					g				341	0.0341
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-	0.000154	g	20000	2			
Silicon Semiconductor Die		Glass	Silicon, doped	-	0.007546	g	980000	98		16716	1.6716

**LINKS**

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

#### IPC1752 XML LINKS

[http://www.freescale.com/mcds/MCIMX6G2AVM05AB\\_IPC1752\\_v11.xml](http://www.freescale.com/mcds/MCIMX6G2AVM05AB_IPC1752_v11.xml)

[http://www.freescale.com/mcds/MCIMX6G2AVM05AB\\_IPC1752A.xml](http://www.freescale.com/mcds/MCIMX6G2AVM05AB_IPC1752A.xml)