

PART INFORMATION

Mfg Item Number	MCIMX7D7DVM10SC
Mfg Item Name	MAPBGA 541 19*19*1.4P.75

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2018-04-20
Response Document ID	00L2K00245D001M1.1
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	MCIMX7D7DVM10SC
Mfg Item Name	MAPBGA 541 19*19*1.4P.75
Version	ALL
Weight	0.912000
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. piezoelectronic 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%
Silicon Semiconductor Die	0.0102						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000204	g	20000	2	223	0.0223
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.009996	g	880000	98	10960	1.096
Organic Substrate, Halogen-free	0.1938						g				
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Proprietary Material-Other acrylates	-		0.0084491	g	43597	4.3597	9264	0.9264
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7		0.0054857	g	28306	2.8306	6015	0.6015
Organic Substrate, Halogen-free		Metals	Chromium, metal	7440-47-3		0	g	0	0	0	0
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8		0.04633062	g	239064	23.9064	50801	5.0801
Organic Substrate, Halogen-free		Metals	Cupric oxide	1317-38-0		0.03977706	g	205248	20.5248	43615	4.3615
Organic Substrate, Halogen-free		Metals	Talc	14807-96-6		0.00065853	g	3398	0.3398	722	0.0722
Organic Substrate, Halogen-free		Nickel (external applications only)	Nickel	7440-02-0		0.00078218	g	4036	0.4036	857	0.0857
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Proprietary Material-Other organic compounds	-		0.0001093	g	564	0.0564	119	0.0119
Organic Substrate, Halogen-free		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.04266216	g	220135	22.0135	46778	4.6778
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3		0.04471857	g	230746	23.0746	49033	4.9033
Organic Substrate, Halogen-free		Glass	Silica, vitreous	80676-86-0		0.0001093	g	564	0.0564	119	0.0119
Organic Substrate, Halogen-free		Metals	Zinc, metal	7440-66-6		0	g	0	0	0	0
Organic Substrate, Halogen-free		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances	-		0.00131687	g	6795	0.6795	1443	0.1443
Organic Substrate, Halogen-free		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9		0.00329131	g	16983	1.6983	3608	0.3608
Organic Substrate, Halogen-free		Pigments and Dyes	Phthalocyanine Blue	57455-37-5		0.0001093	g	564	0.0564	119	0.0119
Non-Conductive Epoxy/Adhesive	0.0014						g				
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other acrylates	-		0.0000966	g	69000	6.9	105	0.0105
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other Epoxy resins	-		0.0000056	g	4000	0.4	6	0.0006
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000966	g	69000	6.9	105	0.0105
Non-Conductive Epoxy/Adhesive		Glass	Silicon dioxide	7631-86-9		0.00028	g	200000	20	307	0.0307
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Proprietary Material-Other Bismaleimides	-		0.00028	g	200000	20	307	0.0307
Non-Conductive Epoxy/Adhesive		Glass	Silylated silica	68909-20-6		0.00063	g	450000	45	690	0.069
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	Other organosilane compounds	-		0.0000056	g	4000	0.4	6	0.0006
Non-Conductive Epoxy/Adhesive		Solvents, additives, and other materials	1H-imidazole-1-propanenitrile, 2-ethyl-4-methyl-	23996-25-0		0.0000056	g	4000	0.4	6	0.0006
Bonding Wire, Other	0.0001						g				
Bonding Wire, Other		Solvents, additives, and other materials	Calcium	7440-70-2		0	g	20	0.002	0	0
Bonding Wire, Other		Metals	Gold, metal	7440-57-5		0.00009905	g	990480	99.048	108	0.0108
Bonding Wire, Other		Metals	Palladium, metal	7440-05-3		0.00000095	g	9500	0.95	1	0.0001
Solder Balls - Lead Free	0.0899						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.0044995	g	5005	0.5005	493	0.0493
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00004504	g	501	0.0501	49	0.0049
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00107997	g	12013	1.2013	1184	0.1184
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.08832504	g	982481	98.2481	96847	9.6847
Die Encapsulant, Halogen-free	0.6166						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.003083	g	5000	0.5	3380	0.338
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.0240474	g	39000	3.9	26367	2.6367
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	80676-86-0		0.5524736	g	896000	89.6	605798	60.5798
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other Non-halogenated Epoxy resins	-		0.036996	g	60000	6	40565	4.0565

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/MCIMX7D7DVM10SC_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MCIMX7D7DVM10SC_IPC1752A.xml