URL for Additional Information

PART INFORMATION

Mfg Item Number

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 00L2K00245D001A1.0 Contact Name Freescale Semiconductor Inc Contact Title Product Technical Support **Contact Phone** 1-800-521-6274 Contact Email support@freescale.com **Authorized Representative** Daniel Binyon Representative Title **EPP Customer Response** Representative Phone 512-895-3406 Representative Email eppanlst@freescale.com

DECLARATION

EU RoHS
Pb Free
Yes
HalogenFree
Plating Indicator
EU ROHS Exemption(s)

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MANUFACTURING Mfg Item Number MCIMX7D2DVM12SC MAPBGA 541 19*19*1.4P.75 Mfg Item Name Version ALL Weight 0.912000 UoM 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, 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 Co
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
Exemptions	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

Homogeneous Material	Weight	SubstanceClass	Substance	CAS Ex	kemption	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	980000	98	10960	1.096
Organic Substrate, Halogen-fre	0.1938						g				
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other acrylates			0.0084491	g	43597	4.3597	9264	0.9264
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.0054857	g	28306	2.8306	6015	0.6015
Organic Substrate, Halogen-fre		Metals	Chromium, metal	7440-47-3		0	g	0	0	0	0
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.04633062	g	239064	23.9064	50801	5.0801
Organic Substrate, Halogen-fre		Metals	Cupric oxide	1317-38-0		0.03977706	g	205248	20.5248	43615	4.3615
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.00065853	g	3398	0.3398	722	0.0722
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.00078218	g	4036	0.4036	857	0.0857
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other organic compounds.	-		0.0001093	g	564	0.0564	119	0.0119
Organic Substrate, Halogen-fre		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.04266216	g	220135	22.0135	46778	4.6778
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.04471857	g	230746	23.0746	49033	4.9033
Organic Substrate, Halogen-fre		Glass	Silica, vitreous	60676-86-0		0.0001093	g	564	0.0564	119	0.0119
Organic Substrate, Halogen-fre		Metals	Zinc, metal	7440-66-6		0	g	0	0	0	0
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.00131687	g	6795	0.6795	1443	0.1443
Organic Substrate, Halogen-fre		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-fre		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		0.00044995	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	60676-86-0		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

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