SUPPLIER

PART INFORMATION

Mfg Item Number

Mfg Item Name

MAPBGA 121 8*8*1.4 P0.65

Company Name
Company Unique ID
Response Date
Response Document ID
Contact Name
Contact Title
Freescale Semiconductor Inc
14-141-7928
2017-06-26
00BCK00195D010A1.15
Freescale Semiconductor Inc
Product Technical Support

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 **URL** for Additional Information www.freescale.com

DECLARATION

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

MANUFACTURING MK30DX64VMC7 Mfg Item Number Mfg Item Name MAPBGA 121 8*8*1.4 P0.65 Version ALL Weight 0.196450 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	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0017						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0001275	g	75000	7.5	649	0.0649
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00034	g	200000	20	1730	0.173
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0001275	g	75000	7.5	649	0.0649
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00034	g	200000	20	1730	0.173
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000765	g	450000	45	3894	0.3894
Solder Balls - Lead Free	0.03145						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000204	g	65	0.0065	10	0.001
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000101	g	32	0.0032	5	0.0005
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000079	g	25	0.0025	4	0.0004
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00014873	g	4729	0.4729	757	0.0757
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000104	g	33	0.0033	5	0.0005
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00000846	g	269	0.0269	43	0.0043
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.0000011	g	35	0.0035	5	0.0005
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00029179	g	9278	0.9278	1485	0.1485
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.03099303	g	985470	98.547	157765	15.7765
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000201	g	64	0.0064	10	0.001
Bonding Wire, Copper	0.0008						g				
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.000776	g	970000	97	3950	0.395
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000024	g	30000	3	122	0.0122
Die Encapsulant, Halogen-free	0.0872						g				
Die Encapsulant, Halogen-free		Metals	Other aluminum compounds	-		0.002616	g	30000	3	13316	1.3316
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000872	g	10000	1	4438	0.4438
Die Encapsulant, Halogen-free		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.002616	g	30000	3	13316	1.3316
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.002616	g	30000	3	13316	1.3316
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.07412	g	850000	85	377312	37.7312
Die Encapsulant, Halogen-free		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.00436	g	50000	5	22193	2.2193
Organic Substrate	0.0437						g				
Organic Substrate		Solvents, additives, and other materials	Other aromatic amines and their salts			0.00000782	g	179	0.0179	39	0.0039
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.00026412	g	6044	0.6044	1344	0.1344
Organic Substrate		Metals	Copper, metal	7440-50-8		0.02058223	g	470989	47.0989	104770	10.477
Organic Substrate		Plastics/polymers	Other Epoxy resins	-		0.00259971	g	59490	5.949	13233	1.3233
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00062535	g	14310	1.431	3183	0.3183
Organic Substrate		Metals	Talc	14807-96-6		0.00013302	g	3044	0.3044	677	0.0677
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00487989	g	111668	11.1668	24840	2.484
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.01155432	g	264401	26.4401	58815	5.8815
Organic Substrate		Glass	Silicon dioxide	7631-86-9		0.00186616	g	42704	4.2704	9499	0.9499
Organic Substrate		Solvents, additives, and other materials	Other Aromatic carbonyl compounds	-		0.00004951	g	1133	0.1133	252	0.0252
Organic Substrate		Metals	Copper phthalocyanine	147-14-8		0.00000232	g	53	0.0053	11	0.0011
Organic Substrate		Solvents, additives, and other materials	Quinacridone pigment	1047-16-1		0.00000232	g	53	0.0053	11	0.0011
Organic Substrate		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9		0.00028964	g	6628	0.6628	1474	0.1474
Organic Substrate		Plastics/polymers	Epoxy Resin	115254-47-2		0.00084127	g	19251	1.9251	4282	0.4282
Organic Substrate		Solvents, additives, and other materials	1,2,4-Trimethylbenzene	95-63-6		0.00000232	g	53	0.0053	11	0.0011
Silicon Semiconductor Die	0.0316						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).			0.000632	g	20000	2	3217	0.3217
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.030968	g	980000	98	157638	15.7638

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http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form IPC1752 XML LINKS

http://www.freescale.com/mcds/MK30DX64VMC7_IPC1752_v11.xml

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