

PART INFORMATION		
Mfg Item Number		MKL26Z256VMP4
Mfg Item Name		MAPBGA 64 5*5*1.2 P.5 2L
SUPPLIER		
Company Name		Freescale Semiconductor Inc
Company Unique ID		14-141-7928
Response Date		2016-05-11
Response Document ID		00BEK00194D009A1.10
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
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		MKL26Z256VMP4
Mfg Item Name		MAPBGA 64 5*5*1.2 P.5 2L
Version		ALL
Weight		0.064800
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	6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight 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

MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%		ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0011						g					
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000825	g	75000	7.5		1273	0.1273
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00022	g	200000	20		3395	0.3395
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0000825	g	75000	7.5		1273	0.1273
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00022	g	200000	20		3395	0.3395
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000495	g	450000	45		7638	0.7638
Solder Balls - Lead Free	0.0069						g					
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000045	g	65	0.0065		6	0.0006
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000022	g	32	0.0032		3	0.0003
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000017	g	25	0.0025		2	0.0002
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00003263	g	4729	0.4729		503	0.0503
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000023	g	33	0.0033		3	0.0003
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00000186	g	269	0.0269		28	0.0028
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000024	g	35	0.0035		3	0.0003
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00006402	g	9278	0.9278		987	0.0987
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.00679974	g	985470	98.547		104934	10.4934
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000044	g	64	0.0064		6	0.0006
Bonding Wire, Copper	0.0008						g					
Bonding Wire, Copper		Metals	Copper, metal	7440-50-8		0.000776	g	970000	97		11975	1.1975
Bonding Wire, Copper		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.000024	g	30000	3		370	0.037
Die Encapsulant, Halogen-free	0.03						g					
Die Encapsulant, Halogen-free		Metals	Other aluminum compounds	-		0.0009	g	30000	3		13888	1.3888
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0003	g	10000	1		4629	0.4629
Die Encapsulant, Halogen-free		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.0009	g	30000	3		13888	1.3888
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.0009	g	30000	3		13888	1.3888
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.0255	g	850000	85		393537	39.3537
Die Encapsulant, Halogen-free		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.0015	g	50000	5		23148	2.3148
Organic Substrate	0.02						g					
Organic Substrate		Solvents, additives, and other materials	Acrylonitrile/Butadiene copolymer, carboxyl terminated (2674)	68891-46-3		0.0001884	g	9420	0.942		2907	0.2907
Organic Substrate		Metals	Barium sulfate	7727-43-7		0.00174968	g	87434	8.7434		26985	2.6985
Organic Substrate		Metals	Copper, metal	7440-50-8		0.00722272	g	361136	36.1136		111461	11.1461
Organic Substrate		Plastics/polymers	4,4'-dihydroxy-3,3',5,5'-tetramethylbiphenyl diglycidyl ether	85954-11-6		0.00122312	g	61156	6.1156		18875	1.8875
Organic Substrate		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00337042	g	168521	16.8521		52012	5.2012
Organic Substrate		Metals	Gold, metal	7440-57-5		0.00009282	g	4641	0.4641		1432	0.1432
Organic Substrate		Silicon	Silicon	7440-21-3		0.0000232	g	1160	0.116		358	0.0358
Organic Substrate		Nickel (external applications only)	Nickel	7440-02-0		0.00093646	g	46823	4.6823		14451	1.4451
Organic Substrate		Glass	Fibrous-glass-wool	65997-17-3		0.00320114	g	160057	16.0057		49400	4.94
Organic Substrate		Plastics/polymers	Other acrylic resins	-		0.00119582	g	59791	5.9791		18454	1.8454
Organic Substrate		Plastics/polymers	Other acrylic/epoxy resin mixture	-		0.00079722	g	39861	3.9861		12302	1.2302
Silicon Semiconductor Die	0.006						g					
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00012	g	20000	2		1851	0.1851
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00588	g	980000	98		90740	9.074

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/MKL26Z256VMP4_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MKL26Z256VMP4_IPC1752A.xml