

PART INFORMATION	
Mfg Item Number	MCIMX6QP5EYM1AA
Mfg Item Name	FCPBGA 624 21*21*1.45P.8
SUPPLIER	
Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2015-01-21
Response Document ID	009UK50008S343M1.0
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
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	MCIMX6QP5EYM1AA
Mfg Item Name	FCPBGA 624 21*21*1.45P.8
Version	ALL
Weight	1.287100
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
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. 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 PPM	SubPart%	ARTICLEPPM	ARTICLE%
Solder Balls - Lead Free	0.3172					g		g	0.5		
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8	0.00158885	g	5000	0.5009		1234	0.1234
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4	0.00953313	g	30054	3.0054		7406	0.7406
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5	0.30607902	g	964937	96.4937		237819	23.7819
Underfill	0.012					g		g	0.5		
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1	0.00006	g	5000	0.5		46	0.0046
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3	0.00006	g	5000	0.5		46	0.0046
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6	0.0018	g	150000	15		1398	0.1398
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5	0.0012	g	100000	10		932	0.0932
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4	0.00006	g	5000	0.5		46	0.0046
Underfill		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6	0.00036	g	30000	3		279	0.0279
Underfill		Glass	Silica, vitreous	60676-86-0	0.0072	g	600000	60		5593	0.5593
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances, -		0.00006	g	5000	0.5		46	0.0046
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-	0.0012	g	100000	10		932	0.0932
Organic Substrate, Halogen-free	0.9169					g		g	0.5		
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7	0.01502524	g	16387	1.6387		11673	1.1673
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8	0.29396912	g	320612	32.0612		228396	22.8396
Organic Substrate, Halogen-free		Plastics/polymers	Other Epoxy resins	-	0.05425756	g	59175	5.9175		42154	4.2154
Organic Substrate, Halogen-free		Metals	Talc	14807-96-6	0.00172286	g	1879	0.1879		1338	0.1338
Organic Substrate, Halogen-free		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6	0.18363673	g	20280	20.28		142674	14.2674
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3	0.19364745	g	21198	21.198		150452	15.0452
Organic Substrate, Halogen-free		Glass	Silicon dioxide	7631-86-9	0.04947709	g	103585	10.3585		73791	7.3791
Organic Substrate, Halogen-free		Metals	Silver, metal	7440-22-4	0.00055381	g	604	0.0604		430	0.043
Organic Substrate, Halogen-free		Metals	Tin, metal	7440-31-5	0.01781537	g	19430	1.943		13841	1.3841
Organic Substrate, Halogen-free		Metals	Aluminum Hydroxide	21645-51-2	0.06119941	g	66746	6.6746		47548	4.7548
Organic Substrate, Halogen-free		Metals	Copper phthalocyanine	14714-8	0.00009536	g	104	0.0104		74	0.0074
Pb-free Bumped Semiconductor D	0.041					g		g	0.5		
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0	0.000205	g	5000	0.5		159	0.0159
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4	0.00012915	g	3150	0.315		100	0.01
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5	0.00360985	g	85850	8.685		2766	0.2766
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-	0.000369	g	9000	0.9		286	0.0296
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-	0.036736	g	896000	89.6		28541	2.8541

LINKS

MCD LINK

Freescale website <http://www.freescale.com>**GENERAL ENVIRONMENTAL COMPLIANCE LINKS**RoHS signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdfChina RoHS <http://www.freescale.com/chinarohs>REACH signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdfELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdfConflict Minerals statement http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf**FREESCALE ENVIRONMENTAL INFORMATION**EPP website <http://www.freescale.com/epp>FAQ http://www.freescale.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQTechnical Service Request https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod**LINKS TO BLANK IPC1752 FORMS**Blank IPC1752 v1.1 Form http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

IPC1752 XML LINKS

http://www.freescale.com/mcds/MCIMX6QP5EYM1AA_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX6QP5EYM1AA_IPC1752A.xml