

PART INFORMATION

Mfg Item Number	MCIMX6Q5EZK08AD
Mfg Item Name	FCCSP 569 12*12*1.25 0.5

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2015-10-15
Response Document ID	00AYK50008S327A1.2
Contact Name	Freescale Semiconductor Inc
Contact Title	Product Technical Support
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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	MCIMX6Q5EZK08AD
Mfg Item Name	FCCSP 569 12*12*1.25 0.5
Version	ALL
Weight	0.235200
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. 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	0.0448						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.000224	g	5000	0.5	952	0.0952
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.000448	g	10000	1	1904	0.1904
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.044128	g	985000	98.5	187636	18.7636
Underfill	0.0073						g				
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.0003244	g	4444	0.4444	137	0.0137
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.0003244	g	4444	0.4444	137	0.0137
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0008111	g	111111	11.1111	3448	0.3448
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0000811	g	11111	1.1111	344	0.0344
Underfill		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.0003244	g	44444	4.4444	1379	0.1379
Underfill		Glass	Silica, vitreous	60676-86-0		0.0057224	g	72224	7.2224	22415	2.2415
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.0017844	g	24444	2.4444	758	0.0758
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-		0.0056778	g	77778	7.7778	2414	0.2414
Organic Substrate, Halogen-free	0.1238						g				
Organic Substrate, Halogen-free		Metals	Barium sulfate	7727-43-7		0.00166164	g	13422	1.3422	7064	0.7064
Organic Substrate, Halogen-free		Metals	Copper, metal	7440-50-8		0.04130006	g	333603	33.3603	175595	17.5595
Organic Substrate, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.00747492	g	60379	6.0379	31781	3.1781
Organic Substrate, Halogen-free		Metals	Talc	14807-86-6		0.0001804	g	1538	0.1538	809	0.0809
Organic Substrate, Halogen-free		Plastics/polymers	4,4'-isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.0222273	g	179542	17.9542	94503	9.4503
Organic Substrate, Halogen-free		Plastics/polymers	Other polymers	-		0.00233982	g	18900	1.89	9948	0.9948
Organic Substrate, Halogen-free		Glass	Fibrous-glass-wool	65997-17-3		0.02676952	g	216232	21.6232	113815	11.3815
Organic Substrate, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.0131176	g	105958	10.5958	55772	5.5772
Organic Substrate, Halogen-free		Metals	Silver, metal	7440-22-4		0.0000078	g	63	0.0063	33	0.0033
Organic Substrate, Halogen-free		Metals	Tin, metal	7440-31-5		0.00024141	g	1950	0.195	1026	0.1026
Organic Substrate, Halogen-free		Metals	Aluminum Hydroxide	21645-51-2		0.00845888	g	68327	6.8327	35964	3.5964
Organic Substrate, Halogen-free		Metals	Copper phthalocyanine	147-14-8		0.00001065	g	86	0.0086	45	0.0045
Die Encapsulant, Halogen-free	0.0415						g				
Die Encapsulant, Halogen-free		Metals	Aluminum Oxides (Al2O3)	1344-28-1		0.0083	g	200000	20	35289	3.5289
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.00249	g	60000	6	10586	1.0586
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.0002075	g	5000	0.5	882	0.0882
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.0014525	g	35000	3.5	6175	0.6175
Die Encapsulant, Halogen-free		Glass	Silicon dioxide	7631-86-9		0.010375	g	250000	25	44111	4.4111
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.018675	g	450000	45	79400	7.94
Pb-free Bumped Semiconductor D	0.0178						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.000089	g	5000	0.5	378	0.0378
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00005607	g	3150	0.315	238	0.0238
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00154593	g	86850	8.685	6572	0.6572
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.0001602	g	9000	0.9	681	0.0681
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.0159488	g	896000	89.6	67809	6.7809

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.pdf

China RoHS <http://www.freescale.com/chinarohs>

REACH signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_REACH_Freescale_Response.pdf

ELV signed letter http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ELV_Freescale_Reponse.pdf

Conflict 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_FAQ

Technical 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/mcdfs/MCIMX6Q5EZK08AD_IPC1752_v11.xml

http://www.freescale.com/mcdfs/MCIMX6Q5EZK08AD_IPC1752A.xml