URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

PCIMX6Q5EYM12AC

FCPBGA 624 21*21*1.45P.8

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2013-03-14 Response Document ID 009UK10737D166A1.0 Contact Name Freescale Semiconductor Inc Contact Title Product Technical Support **Contact Phone** 1-800-521-6274 Contact Email support@freescale.com Daniel Binyon **Authorized Representative** Representative Title **EPP Customer Response** Representative Phone 512-895-3406 Representative Email eppanlst@freescale.com

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

Yes

Yes

Yes

Yes

Yes

Yes

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MANUFACTURING Mfg Item Number PCIMX6Q5EYM12AC Mfg Item Name FCPBGA 624 21*21*1.45P.8 Version ALL Weight 1.287100 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

2011/65/EU **RoHS Directive** 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 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 **RoHS Legal Definition** 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. Sale applicable to such part(s) shall apply. **RoHS Declaration** 1 - Item(s) do not contain RoHS restricted substances per the definition above Accepted Supplier Acceptance Signature **Daniel Binyon** Exemptions in this part 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 7(c)-1: 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

SubPart	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart	SubPart%	REACHPPM	REACH%
								PPM			
Pb-free Bumped Semiconductor D	0.041						g				
Pb-free Bumped Semiconductor D		Metals	Nickel, metal	7440-02-0		0.000205	g	5000	0.5	159	0.0159
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.000129	g	3150	0.315	100	0.01
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.003561	g	86850	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	0.0286
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.036736	g	896000	89.6	28541	2.8541
Organic Substrate, Halogen-fre	0.9169						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.009758	g	10642	1.0642	7581	0.7581
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.562946	g	613967	61.3967	437385	43.7385
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other imidazole compounds	-		0.000557	g	608	0.0608	432	0.0432
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.001672	g	1824	0.1824	1299	0.1299
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other organic Silicon Compounds	-		0.001765	g	1925	0.1925	1371	0.1371
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Proprietary Material-Other organic silicon compounds			0.065233	g	71145	7.1145	50682	5.0682
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.009107	g	9932	0.9932	7075	0.7075
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.182318	g	198842	19.8842	141651	14.1651
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.059231	g	64599	6.4599	46018	4.6018
Organic Substrate, Halogen-fre		Glass	Other silica compounds			0.001765	g	1925	0.1925	1371	0.1371
Organic Substrate, Halogen-fre		Metals	Silver, metal	7440-22-4		0.000055	g	60	0.006	42	0.0042
Organic Substrate, Halogen-fre		Metals	Tin, metal	7440-31-5		0.001837	g	2003	0.2003	1427	0.1427
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Toluene	108-88-3		0.000176	g	192	0.0192	136	0.0136
Organic Substrate, Halogen-fre		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.016726	g	18242	1.8242	12995	1.2995
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other organosilane compounds	-		0.000093	g	101	0.0101	72	0.0072
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Cyclohexanone	108-94-1		0.003661	g	3993	0.3993	2844	0.2844
Underfill	0.012						g				
Underfill		Metals	Other bismuth compounds			0.000299	g	24876	2.4876	232	0.0232
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.001791	g	149254	14.9254	1391	0.1391
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.001194	g	99502	9.9502	927	0.0927
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00006	g	4975	0.4975	46	0.0046
Underfill		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.000299	g	24876	2.4876	232	0.0232
Underfill		Glass	Silica, vitreous	60676-86-0		0.007163	g	597015	59.7015	5565	0.5565
Underfill		Solvents, additives, and other materials	Diethyltoluenediamine	68479-98-1		0.001194	g	99502	9.9502	927	0.0927
Solder Balls - Lead Free	0.3172						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.001589	g	5009	0.5009	1234	0.1234
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.009533	g	30054	3.0054	7406	0.7406
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.306078	q	964937	96.4937	237807	23.7807

LINKS

MCD LINK

http://www.freescale.com Freescale website

GENERAL ENVIRONMENTAL COMPLIANCE LINKS

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_ROHS_Freescale_Response.pdf

RoHS signed letter China RoHS http://www.freescale.com/chinarohs

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

http://www.freescale.com/files/abstract/corporate/ehs_epp/ENV_CONFLICT_METAL_Freescale_Response.pdf Conflict Minerals statement FREESCALE ENVIRONMENTAL INFORMATION

EPP website

http://www.freescale.com/epp

FAQ

Technical Service Request

LINKS TO BLANK IPC1752 FORMS

http://www.freescale.com/webapp/sps/site/overview.jsp?code=ENVIRON_FAQ

https://www.freescale.com/webapp/servicerequest.create_SR.framework?defaultCategory=Hardware Product Support&defaultTopic=Environmentally Preferred Prod

Blank IPC1752 v0.9 Form $http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v0.9_MCD_Template.pdf$ http://www.freescale.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

http://www.freescale.com/mcds/PCIMX6Q5EYM12AC_IPC1752_v09.xml

http://www.freescale.com/mcds/PCIMX6Q5EYM12AC_IPC1752_v11.xml

http://www.freescale.com/mcds/PCIMX6Q5EYM12AC_IPC1752A.xml