SUPPLIER

URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 MCIMX6Q4AVT08ADR

 Mfg Item Name
 FC-PBGA 624 21*21*2 P0.8

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-10-19 Response Document ID 00A2K50008S271A1.4 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

DECLARATION

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

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MANUFACTURING Mfg Item Number MCIMX6Q4AVT08ADR Mfg Item Name FC-PBGA 624 21*21*2 P0.8 Version ALL Weight 3.327500 UoM EACH Unit Volume 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	xemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Bonding Agent	0.0206						a	1 1 191			
Bonding Agent		Solvents, additives, and other materials	Siloxanes and silicones, di-Me, vinyl group-terminated	68083-19-2		0.00927	a	450000	45	2785	0.2785
Bonding Agent		Glass	Silica, crystalline - quartz (SiO2)	14808-60-7		0.00824	a	400000	40	2476	0.2476
Bonding Agent		Solvents, additives, and other materials	Dimethylvinylated and trimethylated silica	68988-89-6		0.00309	a	150000	15	928	0.0928
Solder Balls - Lead Free	0.3172						a				1
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00158885	a	5009	0.5009	477	0.0477
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00953313	a	30054	3.0054	2864	0.2864
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.30607802	a	964937	96.4937	91984	9.1984
Heat Spreader	2.0062						a		341.103		
Heat Spreader		Metals	Copper, metal	7440-50-8		1.98973512	a	991793	99.1793	597983	59.7983
Heat Spreader		Nickel (external applications only)	Nickel	7440-02-0		0.01646488	a	8207	0.8207	4948	0.4948
Underfill	0.012	The state of the s					a		0.020	10.10	
Underfill	0.012	Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.00006	a	5000	0.5	18	0.0018
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.00006	g	5000	0.5	18	0.0018
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.0018	9	150000	15	540	0.054
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.0012	9	100000	10	360	0.036
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.00006	9	5000	0.5	18	0.0018
Underfill		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.00036	g	30000	3	108	0.0108
Underfill		Glass	Silica, vitreous	60676-86-0		0.0072	q	600000	60	2163	0.2163
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.00006	q	5000	0.5	18	0.0018
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds			0.0012	q	100000	10	360	0.036
Organic Substrate, Halogen-fre	0.9216						q				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.01510226	q	16387	1.6387	4538	0.4538
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.295476	q	320612	32.0612	88798	8.8798
Organic Substrate, Halogen-fre		Plastics/polymers	Other Epoxy resins			0.05453568	q	59175	5.9175	16389	1.6389
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.00173169	q	1879	0.1879	520	0.052
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.18457805	g	200280	20.028	55470	5.547
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.19464008	g	211198	21.1198	58494	5.8494
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.09546394	g	103585	10.3585	28689	2.8689
Organic Substrate, Halogen-fre		Metals	Silver, metal	7440-22-4		0.00055665	g	604	0.0604	167	0.0167
Organic Substrate, Halogen-fre		Metals	Tin, metal	7440-31-5		0.01790669	g	19430	1.943	5381	0.5381
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.06151311	g	66746	6.6746	18486	1.8486
Organic Substrate, Halogen-fre		Metals	Copper phthalocyanine	147-14-8		0.00009585	g	104	0.0104	28	0.0028
Gel Die Encapsulant	0.012						g				
Gel Die Encapsulant		Metals	Aluminum, metal	7429-90-5		0.00864	g	720000	72	2596	0.2596
Gel Die Encapsulant		Solvents, additives, and other materials	Proprietary Material-Other siloxanes and silicones	-		0.0012	g	100000	10	360	0.036
Gel Die Encapsulant		Metals	Zinc oxide	1314-13-2		0.00216	g	180000	18	649	0.0649
Pb-free Bumped Semiconductor D	0.0379						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.0001895	g	5000	0.5	56	0.0056
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00011939	g	3150	0.315	35	0.0035
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00329162	g	86850	8.685	989	0.0989
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0003411	g	9000	0.9	102	0.0102
Pb-free Bumped Semiconductor D		Glass	Silicon, doped			0.03395839	g	896000	89.6	10205	1.0205

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