Mfg Item Number	MCIMX6S1AVM08ABR	
Mfg Item Name	MAPBGA 624 21*21*1.6 P.8	
SUPPLIER		
Company Name	Freescale Semiconductor Inc	
Company Unique ID	14-141-7928	
Response Date	2015-09-30	
Response Document ID	00BNK50001S058A1.4	
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	
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	MCIMX6S1AVM08ABR
Mfg Item Name	MAPBGA 624 21*21*1.6 P.8
Version	ALL
Weight	1.252500
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 provides as part of that agreement, will be the sole and exclusive source of the Suppliers liability and the Company's 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 Supplier Standard Terms and Conditions of Sale ap
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

lomogeneous Material	Weight				SubstanceWeight	UoM	SubPart PPM		ARTICLEPPM	ARTICLE%
n-Conductive Epoxy/Adhesive	0.0015					g				
n-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-	0.0001125	g	75000	7.5	89	0.0089
n-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5	0.0003	g	200000	20	239	0.0239
on-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-	0.0001125	g	75000	7.5	89	0.0089
n-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-	0.0003	g	200000	20	239	0.0239
n-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0	0.000675	g	450000	45	538	0.0538
e Encapsulant	0.7009					g				
e Encapsulant		Metals	Aluminum, metal	7429-90-5	0.01402501	g	20010	2.001	11197	1.1197
Encapsulant		Metals	Magnesium, metal	7439-95-4	0.0070125	g	10005	1.0005	5598	0.5598
Encapsulant		Plastics/polymers	Other phenolic resins	-	0.02103751	g	30015	3.0015	16796	1.6796
e Encapsulant		Glass	Silicon dioxide	7631-86-9	0.12622508	g	180090	18.009	100778	10.0778
Encapsulant		Glass	Silica, vitreous	60676-86-0	0.49052487	g	699850	69.985	391652	39.1652
Encapsulant		Plastics/polymers	Other acrylic/epoxy resin mixture	-	0.04207503	g	60030	6.003	33592	3.3592
nding Wire, PdCu	0.0083					g				
nding Wire, PdCu		Metals	Copper, metal	7440-50-8	0.00814225	g	980994	98.0994	6500	0.65
nding Wire, PdCu		Metals	Gold, metal	7440-57-5	0.000083	g	1000	0.1	6	0.0006
nding Wire, PdCu		Metals	Palladium, metal	7440-05-3	0.00014945	g	18006	1.8006	119	0.0119
con Semiconductor Die	0.0184					g				
on Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).		0.000368	g	20000	2	293	0.0293
con Semiconductor Die		Glass	Silicon, doped	-	0.018032	g	980000	98	14396	1.4396
anic Substrate, Halogen-fre	0.2148					g				
janic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7	0.00448438	g	20877	2.0877	3580	0.358
ganic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8	0.12331949	g	574113	57.4113	98458	9.8458
ganic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5	0.00672646	g	31315	3.1315	5370	0.537
ganic Substrate, Halogen-fre		Metals	Talc	14807-96-6	0.00179379	g	8351	0.8351	1432	0.1432
ganic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0	0.04260128	g	198330	19.833	34012	3.4012
ganic Substrate, Halogen-fre		Solvents, additives, and other materials	Silicone modified epoxy resin	218163-11-2	0.02242168	g	104384	10.4384	17901	1.7901
anic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3	0.01121084	g	52192	5.2192	8950	0.895
anic Substrate, Halogen-fre		Glass	Silica, vitreous	60676-86-0	0.00224208	g	10438	1.0438	1790	0.179
der Balls - Lead Free	0.3086					g				
der Balls - Lead Free		Metals	Copper, metal	7440-50-8	0.00154578	g	5009	0.5009	1234	0.1234
der Balls - Lead Free		Metals	Silver, metal	7440-22-4	0.00927466	g	30054	3.0054	7404	0.7404
Ider Balls - Lead Free		Metals	Tin, metal	7440-31-5	0.29777956	a	964937	96.4937	237748	23.7748

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/mcds/MCIMX6S1AVM08ABR_IPC1752_v11.xml

http://www.freescale.com/mcds/MCIMX6S1AVM08ABR_IPC1752A.xml