URL for Additional Information

 PART INFORMATION

 Mfg Item Number
 MIMXRT1051CVL5B

 Mfg Item Name
 MAPBGA 196 10SQ*0.8P0.65

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2018-05-19 Response Document ID 00TAK00145D009A1.1 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 MIMXRT1051CVL5B Mfg Item Name MAPBGA 196 10SQ*0.8P0.65 Version ALL Weight 0.250600 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

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	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Non-Conductive Epoxy/Adhesive	0.0003						g				
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other Epoxy resins	-		0.0000225	g	75000	7.5	89	0.0089
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Crosslinked acrylate polymer	25767-43-5		0.00006	g	200000	20	239	0.0239
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Other polymers	-		0.0000225	g	75000	7.5	89	0.0089
Non-Conductive Epoxy/Adhesive		Plastics/polymers	Proprietary Material-Other polymers	-		0.00006	g	200000	20	239	0.0239
Non-Conductive Epoxy/Adhesive		Glass	Silica, vitreous	60676-86-0		0.000135	g	450000	45	538	0.0538
Solder Balls - Lead Free	0.0221						g				
Solder Balls - Lead Free		Antimony/Antimony Compounds	Antimony (metallic)	7440-36-0		0.00000144	g	65	0.0065	5	0.0005
Solder Balls - Lead Free		Arsenic/Arsenic Compounds	Arsenic	7440-38-2		0.00000071	g	32	0.0032	2	0.0002
Solder Balls - Lead Free		Bismuth/Bismuth Compounds	Bismuth	7440-69-9		0.00000055	g	25	0.0025	2	0.0002
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00010451	g	4729	0.4729	417	0.0417
Solder Balls - Lead Free		Metals	Iron, metal	7439-89-6		0.00000073	g	33	0.0033	2	0.0002
Solder Balls - Lead Free		Lead/Lead Compounds	Lead	7439-92-1		0.00000594	g	269	0.0269	23	0.0023
Solder Balls - Lead Free		Nickel (external applications only)	Nickel	7440-02-0		0.00000077	g	35	0.0035	3	0.0003
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00020504	g	9278	0.9278	818	0.0818
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.0217789	g	985470	98.547	86907	8.6907
Solder Balls - Lead Free		Metals	Germanium	7440-56-4		0.00000141	g	64	0.0064	5	0.0005
Die Encapsulant, Halogen-free	0.1243						g				
Die Encapsulant, Halogen-free		Plastics/polymers	Other Epoxy resins	-		0.007458	g	60000	6	29760	2.976
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.001243	g	10000	1	4960	0.496
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Other inorganic compounds.	-		0.002486	g	20000	2	9920	0.992
Die Encapsulant, Halogen-free		Plastics/polymers	Other phenolic resins	-		0.006215	g	50000	5	24800	2.48
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.106898	g	860000	86	426587	42.6587
Bonding Wire, PdCu	0.0011						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0010791	g	981000	98.1	4306	0.4306
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000011	g	1000	0.1	4	0.0004
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0000198	g	18000	1.8	79	0.0079
Organic Substrate, Halogen-fre	0.0958						g				
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other aromatic amines and their salts	-		0.00001993	g	208	0.0208	79	0.0079
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00067328	g	7028	0.7028	2686	0.2686
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.04418726	g	461245	46.1245	176325	17.6325
Organic Substrate, Halogen-fre		Plastics/polymers	Other Epoxy resins	-		0.00542966	g	56677	5.6677	21666	2.1666
Organic Substrate, Halogen-fre		Metals	Gold, metal	7440-57-5		0.00159402	g	16639	1.6639	6360	0.636
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.00033913	g	3540	0.354	1353	0.1353
Organic Substrate, Halogen-fre		Nickel (external applications only)	Nickel	7440-02-0		0.01243944	g	129848	12.9848	49638	4.9638
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.02413183	g	251898	25.1898	96296	9.6296
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.00395894	g	41325	4.1325	15797	1.5797
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other Aromatic carbonyl compounds	-		0.00012617	g	1317	0.1317	503	0.0503
Organic Substrate, Halogen-fre		Metals	Copper phthalocyanine	147-14-8		0.00000594	g	62	0.0062	23	0.0023
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Quinacridone pigment	1047-16-1		0.00000594	g	62	0.0062	23	0.0023
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	3-methoxy-3-methyl-1-butyl acetate	103429-90-9		0.00073804	g	7704	0.7704	2945	0.2945
Organic Substrate, Halogen-fre		Plastics/polymers	Epoxy Resin	115254-47-2		0.00214448	g	22385	2.2385	8557	0.8557
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	1,2,4-Trimethylbenzene	95-63-6		0.00000594	g	62	0.0062	23	0.0023
Silicon Semiconductor Die	0.007						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.00014	g	20000	2	558	0.0558
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.00686	g	980000	98	27374	2.7374

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