URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

LS1043ASE8MQA

FCPBGA 780 23*23*1.9 P.8

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2018-03-09 Response Document ID 00NVK50008S367A1.4 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 LS1043ASE8MQA Mfg Item Name FCPBGA 780 23*23*1.9 P.8 Version ALL Weight 1.526000 UoM Unit Volume EACH J-STD-020 MSL Rating 3 Peak Processing Temperature 250 C Max Time at Peak Temperature 30 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							
Lacinpuoris	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%
Solder Balls - Lead Free	0.1936						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00096974	g	5009	0.5009	635	0.0635
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00581845	g	30054	3.0054	3812	0.3812
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.18681181	g	964937	96.4937	122419	12.2419
Underfill	0.0128						g				
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.000064	g	5000	0.5	41	0.0041
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.000064	g	5000	0.5	41	0.0041
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.00192	g	150000	15	1258	0.1258
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00128	g	100000	10	838	0.0838
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000064	g	5000	0.5	41	0.0041
Underfill		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.000384	g	30000	3	251	0.0251
Underfill		Glass	Silica, vitreous	60676-86-0		0.00768	g	600000	60	5032	0.5032
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.	-		0.000064	g	5000	0.5	41	0.0041
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-		0.00128	g	100000	10	838	0.0838
Pb-free Bumped Semiconductor D	0.1028						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.000514	g	5000	0.5	336	0.0336
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00032382	g	3150	0.315	212	0.0212
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00892818	g	86850	8.685	5850	0.585
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0009252	g	9000	0.9	606	0.0606
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.0921088	g	896000	89.6	60359	6.0359
Organic Substrate, Halogen-fre	1.2168						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00471875	g	3878	0.3878	3092	0.3092
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.58086989	g	477375	47.7375	380665	38.0665
Organic Substrate, Halogen-fre		Plastics/polymers	Epikote 862	28064-14-4		0.06352913	g	52210	5.221	41631	4.1631
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.13156042	g	108120	10.812	86212	8.6212
Organic Substrate, Halogen-fre		Plastics/polymers	Phenol, polymer with formaldehyde	9003-35-4		0.03433931	g	28221	2.8221	22502	2.2502
Organic Substrate, Halogen-fre		Plastics/polymers	Other polymers	-		0.01684051	g	13840	1.384	11035	1.1035
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.21033118	g	172856	17.2856	137831	13.7831
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.05036822	g	41394	4.1394	33006	3.3006
Organic Substrate, Halogen-fre		Metals	Silver, metal	7440-22-4		0.00064004	g	526	0.0526	419	0.0419
Organic Substrate, Halogen-fre		Metals	Tin, metal	7440-31-5		0.02058339	g	16916	1.6916	13488	1.3488
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.10301916	q	84664	8.4664	67509	6.7509

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http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf

LINKS TO BLANK IPC1752 FORMS Blank IPC1752 v1.1 Form

IPC1752 XML LINKS

http://www.freescale.com/mcds/LS1043ASE8MQA_IPC1752_v11.xml

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