SUPPLIER

URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

LS1022ASN7EKB

FCPBGA 525 19*19*1.92 .8

Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2016-07-07 00GWK50008S322A1.3 Response Document ID 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

DECLARATION

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

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MANUFACTURING Mfg Item Number LS1022ASN7EKB Mfg Item Name FCPBGA 525 19*19*1.92 .8 Version ALL Weight 0.955400 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
Lacinpuolis	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	0.1303						g				
Solder Balls - Lead Free		Metals	Copper, metal	7440-50-8		0.00065267	g	5009	0.5009	683	0.0683
Solder Balls - Lead Free		Metals	Silver, metal	7440-22-4		0.00391604	g	30054	3.0054	4098	0.4098
Solder Balls - Lead Free		Metals	Tin, metal	7440-31-5		0.12573129	g	964937	96.4937	131600	13.16
Underfill	0.0056						g				
Underfill		Bismuth/Bismuth Compounds	Bismuth nitrate	10361-44-1		0.000028	g	5000	0.5	29	0.0029
Underfill		Bismuth/Bismuth Compounds	Bismuth trioxide	1304-76-3		0.000028	g	5000	0.5	29	0.0029
Underfill		Plastics/polymers	1,6-Bis(2,3-epoxypropoxy) naphthalene	27610-48-6		0.00084	g	150000	15	879	0.0879
Underfill		Plastics/polymers	Phenolic Polymer Resin, Epikote 155	9003-36-5		0.00056	g	100000	10	586	0.0586
Underfill		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.000028	g	5000	0.5	29	0.0029
Underfill		Plastics/polymers	4,4'-lsopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.000168	g	30000	3	175	0.0175
Underfill		Glass	Silica, vitreous	60676-86-0		0.00336	g	600000	60	3516	0.3516
Underfill		Solvents, additives, and other materials	Proprietary Material-Other miscellaneous substances.			0.000028	g	5000	0.5	29	0.0029
Underfill		Solvents, additives, and other materials	Proprietary Material-Other aliphatic amine compounds	-		0.00056	g	100000	10	586	0.0586
Organic Substrate, Halogen-fre	0.7663						g				
Organic Substrate, Halogen-fre		Metals	Barium sulfate	7727-43-7		0.00626527	g	8176	0.8176	6557	0.6557
Organic Substrate, Halogen-fre		Metals	Copper, metal	7440-50-8		0.26895597	g	350980	35.098	281524	28.1524
Organic Substrate, Halogen-fre		Plastics/polymers	Epikote 862	28064-14-4		0.12066236	g	157461	15.7461	126295	12.6295
Organic Substrate, Halogen-fre		Plastics/polymers	Other Epoxy resins			0.04874511	g	63611	6.3611	51020	5.102
Organic Substrate, Halogen-fre		Metals	Talc	14807-96-6		0.0012644	g	1650	0.165	1323	0.1323
Organic Substrate, Halogen-fre		Solvents, additives, and other materials	Other organic phosphorous compounds			0.00992282	g	12949	1.2949	10386	1.0386
Organic Substrate, Halogen-fre		Plastics/polymers	4,4'-Isopropylidenediphenol-1-chloro-2,3-epoxypropane concentrate	25068-38-6		0.02280892	g	29765	2.9765	23873	2.3873
Organic Substrate, Halogen-fre		Plastics/polymers	Other polymers	-		0.00799481	g	10433	1.0433	8368	0.8368
Organic Substrate, Halogen-fre		Glass	Fibrous-glass-wool	65997-17-3		0.11917268	g	155517	15.5517	124735	12.4735
Organic Substrate, Halogen-fre		Glass	Silicon dioxide	7631-86-9		0.09970176	g	130108	13.0108	104356	10.4356
Organic Substrate, Halogen-fre		Metals	Silver, metal	7440-22-4		0.00007816	g	102	0.0102	81	0.0081
Organic Substrate, Halogen-fre		Metals	Tin, metal	7440-31-5		0.00250963	g	3275	0.3275	2626	0.2626
Organic Substrate, Halogen-fre		Metals	Aluminum Hydroxide	21645-51-2		0.05815757	g	75894	7.5894	60872	6.0872
Organic Substrate, Halogen-fre		Metals	Copper phthalocyanine	147-14-8		0.00006054	g	79	0.0079	63	0.0063
Pb-free Bumped Semiconductor D	0.0532						g				
Pb-free Bumped Semiconductor D		Nickel (external applications only)	Nickel	7440-02-0		0.000266	g	5000	0.5	278	0.0278
Pb-free Bumped Semiconductor D		Metals	Silver, metal	7440-22-4		0.00016758	g	3150	0.315	175	0.0175
Pb-free Bumped Semiconductor D		Metals	Tin, metal	7440-31-5		0.00462042	g	86850	8.685	4836	0.4836
Pb-free Bumped Semiconductor D		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.0004788	g	9000	0.9	501	0.0501
Pb-free Bumped Semiconductor D		Glass	Silicon, doped	-		0.0476672	g	896000	89.6	49892	4.9892

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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

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