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PART INFORMATION

Mfg Item Number	FS32K144HFT0VLLR
Mfg Item Name	LQFP 100 14SQ1.4P0.5 C90

SUPPLIER

Company Name	Freescale Semiconductor Inc
Company Unique ID	14-141-7928
Response Date	2017-12-20
Response Document ID	8285A1.8
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	e3
EU RoHS Exemption(s)	

MANUFACTURING

Mfg Item Number	FS32K144HFT0VLLR
Mfg Item Name	LQFP 100 14SQ1.4P0.5 C90
Version	ALL
Weight	0.685200
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 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 Conditions of Sale applicable to such part(s) shall apply.
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	<p>6(a) : Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight</p> <p>6(b) : Lead as an alloying element in aluminium containing up to 0.4% lead by weight</p> <p>6(c) : Copper alloy containing up to 4% lead by weight</p> <p>7(a) : Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)</p> <p>7(b) : Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission, and network management for telecommunications</p> <p>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</p> <p>7(c)-II : Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher</p> <p>7(c)-III : Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC</p> <p>7(c)-IV : Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors</p> <p>15 : Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages</p>



MATERIAL COMPOSITION

Homogeneous Material	Weight	SubstanceClass	Substance	CAS	Exemption	SubstanceWeight	UoM	SubPart PPM	SubPart%	ARTICLEPPM	ARTICLE%
Lead Frame Plating	0.0099						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.0000198	g	200	0.02	2	0.0002
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.0098802	g	999800	99.98	14445	1.4445
Copper Lead Frame	0.1626						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.1567398	g	963955	96.3955	228749	22.8749
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00013415	g	825	0.0825	195	0.0195
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0038211	g	23500	2.35	5576	0.5576
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.0002764	g	170	0.017	40	0.004
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.01626	g	10000	1	2373	0.2373
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.0004878	g	300	0.03	71	0.0071
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00020325	g	1250	0.125	296	0.0296
Die Encapsulant, Halogen-free	0.4695						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.004695	g	10000	1	6852	0.6852
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.023475	g	50000	5	34260	3.426
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	80676-86-0		0.408465	g	870000	87	596136	59.6136
Die Encapsulant, Halogen-free		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.032865	g	70000	7	47964	4.7964
Bonding Wire, PdCu	0.0017						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.016677	g	961000	96.1	2433	0.2433
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.000017	g	1000	0.1	2	0.0002
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0000306	g	18000	1.8	44	0.0044
Epoxy Die Attach	0.0022						g				
Epoxy Die Attach		Plastics/polymers	Poly[o-(cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.000044	g	20000	2	64	0.0064
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.00176	g	800000	80	2568	0.2568
Epoxy Die Attach		Solvents, additives, and other materials	Other Organic Peroxides	-		0.000066	g	3000	0.3	9	0.0009
Epoxy Die Attach		Solvents, additives, and other materials	3-(trimethoxysilyl)propyl methacrylate	2530-85-0		0.0000242	g	11000	1.1	35	0.0035
Epoxy Die Attach		Solvents, additives, and other materials	2-propenoic acid, (1-methylethylidene)bis(4-(phenylenoxy)2,1-nitrooxy) ester	24447-78-7		0.000154	g	70000	7	224	0.0224
Epoxy Die Attach		Plastics/polymers	Poly(acrylonitrile-co-butadiene-co-acrylic acid), dicarboxy terminated	68891-50-9		0.0000242	g	11000	1.1	35	0.0035
Epoxy Die Attach		Plastics/polymers	1,3-Butadiene, homopolymer, epoxidized, cyclized	68441-49-6		0.000088	g	40000	4	128	0.0128
Epoxy Die Attach		Plastics/polymers	Dicyclopentylmethyl acrylate	65983-31-5		0.000099	g	45000	4.5	144	0.0144
Silicon Semiconductor Die	0.0393						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%)	-		0.000786	g	20000	2	1147	0.1147
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.038514	g	960000	96	56208	5.6208



LINKS

MCD LINK	
NXP website	http://www.nxp.com
GENERAL ENVIRONMENTAL COMPLIANCE LINKS	
RoHS signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf
China RoHS	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY
REACH signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf
ELV signed letter	http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf
Conflict Minerals statement	http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf
NXP ENVIRONMENTAL INFORMATION	
Environmental Compliance website	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization:ABUENVPRFPRDX
FAQ	http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/eco-product-faqs:ENVIRON_FAQ
Technical Service Request	http://www.nxp.com/support/sales-and-support:SUPPORTHOME
LINKS TO BLANK IPC1752 FORMS	
Blank IPC1752 v1.1 Form	http://www.NXP.com/files/abstract/corporate/ehs_epp/IPC-1752-2_v1.1_MCD_Template.pdf