URL for Additional Information

PART INFORMATION

Mfg Item Number

Mfg Item Name

SPC5742PFK1AMLQ8

LQFP 144 20SQ1.4P0.5 C90

SUPPLIER Company Name Freescale Semiconductor Inc Company Unique ID 14-141-7928 Response Date 2017-07-17 8286K00023D175A1.1 Response Document ID 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 SPC5742PFK1AMLQ8 Mfg Item Number Mfg Item Name LQFP 144 20SQ1.4P0.5 C90 Version ALL Weight 1.319100 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	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	SubPart%	ARTICLEPPM	ARTICLE%
								PPM			
Lead Frame Plating	0.0132						g				
Lead Frame Plating		Lead/Lead Compounds	Lead	7439-92-1		0.00000264	g	200	0.02	2	0.0002
Lead Frame Plating		Metals	Tin, metal	7440-31-5		0.01319736	g	999800	99.98	10004	1.0004
Die Encapsulant, Halogen-free	0.9756						g				
Die Encapsulant, Halogen-free		Solvents, additives, and other materials	Carbon Black	1333-86-4		0.009756	g	10000	1	7395	0.7395
Die Encapsulant, Halogen-free		Plastics/polymers	Proprietary Material-Other phenolic resins	-		0.04878	g	50000	5	36979	3.6979
Die Encapsulant, Halogen-free		Glass	Silica, vitreous	60676-86-0		0.848772	g	870000	87	643459	64.3459
Die Encapsulant, Halogen-free		Plastics/polymers	Other Non-halogenated Epoxy resins	-		0.068292	g	70000	7	51771	5.1771
Bonding Wire, PdCu	0.0032						g				
Bonding Wire, PdCu		Metals	Copper, metal	7440-50-8		0.0031392	g	981000	98.1	2379	0.2379
Bonding Wire, PdCu		Metals	Gold, metal	7440-57-5		0.0000032	g	1000	0.1	2	0.0002
Bonding Wire, PdCu		Metals	Palladium, metal	7440-05-3		0.0000576	g	18000	1.8	43	0.0043
Copper Lead Frame	0.1858						g				
Copper Lead Frame		Metals	Copper, metal	7440-50-8		0.17910283	g	963955	96.3955	135776	13.5776
Copper Lead Frame		Solvents, additives, and other materials	Phosphorus, elemental (not containing red allotrope)	7723-14-0		0.00015329	g	825	0.0825	116	0.0116
Copper Lead Frame		Metals	Iron, metal	7439-89-6		0.0043663	g	23500	2.35	3310	0.331
Copper Lead Frame		Lead/Lead Compounds	Lead	7439-92-1		0.00003159	g	170	0.017	23	0.0023
Copper Lead Frame		Metals	Silver, metal	7440-22-4		0.001858	g	10000	1	1408	0.1408
Copper Lead Frame		Metals	Tin, metal	7440-31-5		0.00005574	g	300	0.03	42	0.0042
Copper Lead Frame		Metals	Zinc, metal	7440-66-6		0.00023225	g	1250	0.125	176	0.0176
Epoxy Die Attach	0.0126						g				
Epoxy Die Attach		Plastics/polymers	Poly[(o-cresyl glycidyl ether)-co-formaldehyde]	29690-82-2		0.000252	g	20000	2	191	0.0191
Epoxy Die Attach		Metals	Silver, metal	7440-22-4		0.01008	g	800000	80	7641	0.7641
Epoxy Die Attach		Solvents, additives, and other materials	Other Organic Peroxides	-		0.0000378	g	3000	0.3	28	0.0028
Epoxy Die Attach		Solvents, additives, and other materials	3-(trimethoxysilyl)propyl methacrylate	2530-85-0		0.0001386	g	11000	1.1	105	0.0105
Epoxy Die Attach		Solvents, additives, and other materials	2-propenoic acid, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester	24447-78-7		0.000882	g	70000	7	668	0.0668
Epoxy Die Attach		Plastics/polymers	Poly(acrylonitrile-co-butadiene-co-acrylic acid), dicarboxy terminated	68891-50-9		0.0001386	g	11000	1.1	105	0.0105
Epoxy Die Attach		Plastics/polymers	1,3-Butadiene, homopolymer, epoxidized, cyclized	68441-49-6		0.000504	g	40000	4	382	0.0382
Epoxy Die Attach		Plastics/polymers	Dicyclopentenyloxyethyl acrylate	65983-31-5		0.000567	g	45000	4.5	429	0.0429
Silicon Semiconductor Die	0.1287						g				
Silicon Semiconductor Die		Solvents, additives, and other materials	Other miscellaneous substances (less than 5%).	-		0.002574	g	20000	2	1951	0.1951
Silicon Semiconductor Die		Glass	Silicon, doped	-		0.126126	q	980000	98	95615	9.5615

LINKS MCD LINK NXP website http://www.nxp.com GENERAL ENVIRONMENTAL COMPLIANCE LINKS http://www.nxp.com/files/corporate/doc/support_info/NXP-ROHS-DECLARATION.pdf RoHS signed letter China RoHS http://www.nxp.com/about/corporate-responsibility/environmental-compliance-organization/china-rohs:ENV_CHINA_ROHS_STRATEGY http://www.nxp.com/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf REACH signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-ELV-STATEMENT.pdf ELV signed letter http://www.nxp.com/files/corporate/doc/support_info/NXP-STATEMENT-CONFLICT-MINERALS.pdf Conflict Minerals statement 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 http://www.nxp.com/support/sales-and-support:SUPPORTHOME Technical Service Request

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/SPC5742PFK1AMLQ8_IPC1752_v11.xml

http://www.freescale.com/mcds/SPC5742PFK1AMLQ8_IPC1752A.xml